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6272
264-105 of 2

McCullough's SEEDS 1941

NOVELTY COLLECTION

Five of the season's new flower introductions which won high ratings in the ALL-AMERICA SEED TRIALS held 1940.

PETUNIA, *Radiance*.

MARIGOLD, *Spry*.

MARIGOLD, *Mission Giant Goldsmith*.

SCABIOSA, *Peace*.

ZINNIA, *Black Ruby*.

\$1.00

5 packets (Value \$1.25) for

For description see pages 22, 23, 24 and 25.

The J. Chas. McCullough
SEED CO.

PARKWAY 2600

230 EAST FOURTH ST. CINCINNATI, OHIO



Hormone-Treated Grass Seed

Treat seed just prior to planting. 1 ounce treats 10 pounds seed. We will treat 50 pounds of seed or more at 5c per pound, in addition to the cost of the seed. See ROOTONE—Page 61.

McCullough's Seeds used at Crosley Field

Champion Cincinnati Reds Baseball Park

CHAMPIONS OF THE TURF LEAGUE

ACME SUPERFINE LAWN SEED

As the name implies, this mixture is the finest that modern seed cleaning machinery can produce. It is 98½ per cent pure. It contains only the plump seeds which produce the strong, healthy plants. It is a scientific combination of extra heavy Kentucky Blue Grass, re-cleaned Poa Trivialis, Fancy Red Top and Creeping Bent. All deep-rooting permanent grasses, free from any of the coarse grasses. Truly the best lawn seed obtainable. 1 lb., 65c; 3 lbs., \$1.85; 5 lbs., \$2.95; 10 lbs., \$5.75; 25 lbs., \$13.75.

EMERALD LAWN SEED

Our standard mixture that has proven satisfactory to our customers over a period of many years. Produces a good clean permanent turf. Composed of re-cleaned Kentucky Blue Grass, Fancy Red Top, Creeping Bent, Chewing's Fescue, White Clover, and other fine grasses. Does not contain any Timothy, better known as hay seed.

Emerald will give satisfaction. 1 lb., 50c; 3 lbs., \$1.35; 5 lbs., \$2.15; 10 lbs., \$4.10; 20 lbs., \$8.00.

Start Your Lawn This Way

Be sure the soil has good drainage. Have the seed bed fine, smooth, and mellow. Careful consideration should be given as to the kind of seed to be used. The cost of the seed represents the smallest part of the investment. It is false economy to save a few cents by purchasing a lawn seed from a questionable source, only to be annoyed later by repatching a weedy turf or being required to do the entire work over.

Select a calm day and sow half the quantity one way and the remaining half at right angles. Seed at the rate of 1 pound to 250 square feet on new lawns or 100 pounds per acre. It requires about one-half as much seed for an established lawn. A thick sod is the best protection against weeds. The seed should be covered by light raking and a top dressing of peat moss or humus. The lawn is then ready for rolling. If watering is necessary, use a fine spray to prevent washing.

ALL SEEDS WE SELL ARE TESTED FOR PURITY AND GROWING QUALITIES — FOR YOUR PROTECTION

• *There Are None Better*

OUR OTHER LAWN SEED MIXTURES

QUEEN CITY LAWN SEED. This reliable, time-tested mixture is composed of Blue Grass, Red Top, Rye Grass and White Clover. It can be depended on to produce a beautiful and permanent lawn. Per $\frac{1}{2}$ lb., 20c; 1 lb., 35c; 5 lbs., \$1.50; 10 lbs., \$2.75; 20 lbs., \$5.25.

WHITE DUTCH CLOVER

(Trifolium repens). A valuable creeping legume for use in lawn and pasture mixtures, or sown as a straight crop.

SHADY NOOK LAWN SEED. Many beautiful lawns are marred by bare spots under trees, shrubbery, and near buildings. Shady Nook is composed of an excellent selection of fine grasses that will withstand such conditions better than those in our other mixtures. It is important that soil fertility and moisture supply is well provided in places getting but little sunshine. Per $\frac{1}{2}$ lb., 35c; 1 lb., 65c; 3 lbs., \$1.80; 5 lbs., \$2.90; 10 lbs., \$5.25; 20 lbs., \$9.60.

TERRACE LAWN SEED. For high, dry situations where moisture and poor soil are conditions to be contended with. It is composed of grasses that should succeed under these conditions and produce a good turf. Per $\frac{1}{2}$ lb., 30c; 1 lb., 50c; 3 lbs., \$1.35; 5 lbs., \$2.15; 10 lbs., \$4.10; 20 lbs., \$8.00.

LAWN FERTILIZERS
SEE PAGE 62.

QUALITY GRASSES FOR ALL SOILS and PURPOSES

ASTORIA BENT, RHODE ISLAND BENT, COLONIAL BENT (Agrostis tenuis). An excellent all-round Bent for lawns, greens, parks and playing fields; grows on wide range of soils; spreads mainly by underground root stalks or rhizomes, making a deep reinforced sod. It seldom produces many stolons or surface runners, thus lessening the amount of top dressing and watering. Sow about 3 lbs. to 1000 square feet.

SEASIDE OR COOS COUNTY BENT (Agrostis maritima). A superlative Bent for putting greens and lawns, ranked high by U. S. Golf Association for putting surface, producing a luxuriant matted growth. It is one of the most vigorous stoloniferous creepers although this characteristic does not usually show up till the second year, after which it makes a fine turf of uniform color and texture. Sow about 3 lbs. to 1000 sq. ft.

BERMUDA (Cynodon dactylon). 35 lbs. per bushel. A vigorous creeper used principally in the South. Can also be used as an annual grass in the North.

BLUE GRASS, CANADIAN (Poa compressa). 14 lbs. per bu. For general use, inferior to Kentucky Blue Grass. Superior in dry, shady or impoverished soils and banks. It does not make a good turf alone as it produces a large amount of stems and comparatively little foliage. Good upland pasture grass.

BLUE GRASS, KENTUCKY (Poa pratensis). 14 lbs. per bu. standard. We can furnish 19 lbs. to 30 lbs. test per bu. Largely used for lawns and when once established, lasts indefinitely. An excellent pasture grass. Deep rooting and has an attractive color. For lawns, sow 5 lbs. per 1000 sq. ft.; for pastures, 20 to 30 lbs. per acre.

BROME GRASS (Bromus inermis). 14 lbs. per bu. A hardy perennial, the seed of which may be sown from spring to fall. It is especially valuable for pasture, the vigorous root stalks forming a firm sod. Brome Grass is more drought resistant than ordinary eastern meadow grasses and does not require a good soil. Usually sown broadcast at the rate of 20 lbs. per acre.

CRESTED WHEAT GRASS (Agropyron cristatum). 24 lbs. per bu. A hardy drought-resistant Northwestern prairie grass, adapted in Central States area mainly for controlling erosion on banks and dry slopes. Once established it develops a deep, firm turf. Can be sown in spring or fall, 50 lbs. per acre.

ENGLISH WILD WHITE CLOVER. 60 lbs. per bu. A dwarf variety of White Clover, very hardy and excellent for permanent pasture, sown alone or broadcast on old meadows. 3 to 5 lbs. per acre.

FESCUE, CHEWINGS (Festuca rubra var. fallax). 24 lbs. per bu. New Zealand grown. This fine-leaved grass produces a bright green turf, especially well adapted for tree shade, on account of its drought resistance. 40 lbs. to the acre.

FESCUE, MEADOW or ENGLISH BLUE (Festuca elatior). 24 lbs. per bu. Sometimes known as Evergreen Grass. Used largely for permanent pasture. 24 lbs. per acre required if sown alone, or in mixtures. 12 to 18 lbs.

We supply in this vicinity nearly all of the cemeteries, public parks, golf courses, and other places where considerable quantities of grass seed are used and we are prepared at all times to furnish the highest quality seeds for all purposes. We will be pleased to estimate on any special mixture that may be required.

LADINO CLOVER. A giant variety of White Clover. Excellent for pasture, recovering quickly from heavy grazing. Most satisfactory on naturally moist soils, and sown alone at rate of 5 lbs. per acre.

ORCHARD GRASS (Dactylis glomerata). 14 lbs. per bu. Particularly suited to upland, loamy or moderately stiff soil. It ripens three weeks ahead of Timothy and is excellent to sow with Red Clover. Usually yields two crops and is one of the most valuable grasses for both pasturage and hay. Requires $1\frac{1}{2}$ to 2 bus. per acre; if with Red Clover, 1 to $1\frac{1}{2}$ bus. of Orchard Grass to 5 or 6 lbs. of Red Clover. For seed, the same quantity of Red Clover and $\frac{3}{4}$ of a bu. of Orchard Grass.

POA TRIVIALIS (Rough Blue Grass). 14 lbs. per bu. This grass is known as "the Blue Grass of the shade," being particularly adapted for shady places. Same family and characteristics as Blue Grass. For lawns, 5 lbs. per 1000 sq. ft.; for pastures, sow $1\frac{1}{2}$ to 2 bus. per acre.

REEDS CANARY GRASS. 35 lbs. per bu. Well-suited commercial hay crop for moist or swampy land. Sow at rate of 6 to 8 lbs. per acre. It is advisable to sow 2 lbs. Alsike with this to insure uniform stand.

RED TOP, FANCY RECLEANED (Agrostis alba). 30 lbs. per bu. Sometimes called Herds Grass. Used as one of the principal ingredients in lawn seed mixtures. Also splendid for pasture, making a fair hay crop. Best suited to moist rich soil, although does well on poor soil. Excellent when sown with Timothy, both maturing together. Requires 6 to 8 lbs. alone, or 3 to 4 lbs. to acre in mixtures. For lawns 4 lbs. per 1000 sq. ft.

RED TOP, ORDINARY or UNHULLED (Agrostis alba). 14 lbs. per bu. Sow at the rate of 30 lbs. per acre. See Fancy Red Top.

RYE GRASS, DOMESTIC. 24 lbs. per bu. Also known as Western Rye Grass. It is inclined to be a quick-growing annual, valuable in lawn mixtures as a nurse crop; succeeds well on almost any type of soil. Valuable in south central states for winter pasture. Sow 20 lbs. per acre.

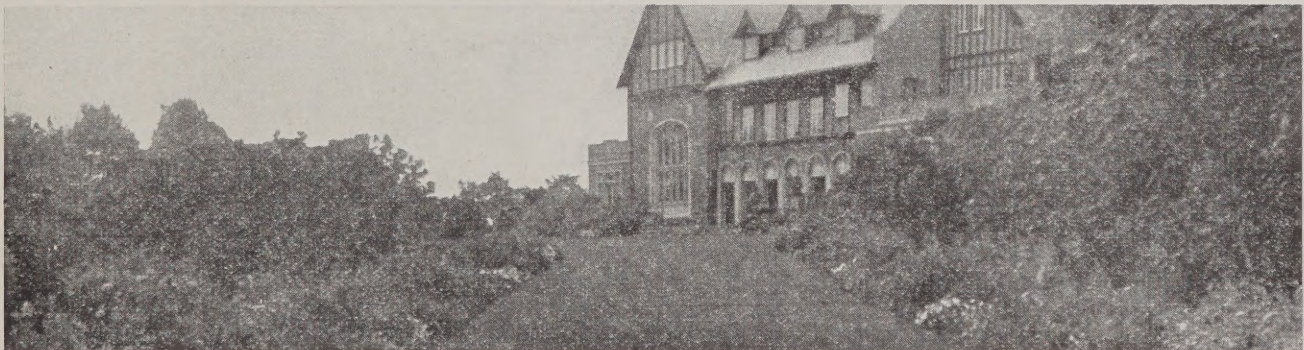
RYE GRASS, ITALIAN (Lolium multiflorum). 24 lbs. per bu. Similar to Perennial Rye Grass but little quicker maturing. Good for a quick hay crop. If alone, requires $1\frac{1}{2}$ bus. per acre. In mixture, 2 to 3 pks. per acre.

RYE GRASS, PERENNIAL (Lolium perenne). 24 lbs. per bu. Often called English Rye Grass. A quick growing grass which is most suitable for mixtures, pastures, hay and lawns. Succeeds well on almost any soil not water sogged and affords good, quick nutritious grazing. If alone, requires $1\frac{1}{2}$ bus. per acre. In mixture, from 2 to 3 pcks per acre.

TAIL MEADOW OAT GRASS (Arrhenatherum elatius). 11 lbs. per bu. A very fine grass which is suitable for upland soils and especially valuable for mixture with Orchard Grass. It ripens about the same time and forms a better sod. Cut when in bloom it is very nutritious and it affords wonderful amount of pasturage. Requires alone $1\frac{1}{2}$ to 2 bus. per acre; in mixture from $\frac{1}{2}$ to $\frac{3}{4}$ bu.

TIMOTHY (Phleum pratense). 45 lbs. per bu. It is the most desirable of all grasses for hay but should not be grazed as the tramping of cattle hoofs causes it to die. In this section Timothy is best suited to low, flat or alluvial soils where there is a fair amount of moisture, but does not grow well in water-sogged soil. Requires alone, 1 peck per acre; if with Clover, 8 lbs. Timothy and 5 to 6 lbs. of Clover.

PRICES ON ALL GRASS SEEDS
Are subject to market changes. We will be pleased to quote firm prices on request. Orders entrusted to us will be filled at the lowest price on the day received.



LeBlond Estate, Tusculum Heights, Cincinnati, Ohio



PREPAREDNESS GARDENS

Under prevailing conditions PREPAREDNESS is more than essential—it is necessary. This is quite generally recognized from a national standpoint, but it applies with equal force to PERSONAL PREPAREDNESS. At no time since the first World War has it been so necessary for the American people to increase their vigor and healthfulness.

A serious shortage of garden vegetables, with sky-rocketing prices, may develop unless there is a large increase in home vegetable gardening.

There can be no reserves of FRESH vegetables, excepting those growing in gardens. The abundant supply to which we have become accustomed, could be changed to a shortage. Requisitions from the army and navy, combined with increased consumption by industrial workers, could cause our present reserves of canned goods to melt with amazing rapidity.

Home gardeners are hearing the call. Vacant land in favorable locations will soon be prepared to strengthen our food front. The first battle to be fought is one to prevent any shortage of garden vegetables and canned goods. This battle can be won by our army of home gardeners.

FRESH VEGETABLES play a vital part in combating malnutrition and supplying the necessary vitamins for the added energy we all must have.

You can protect your family and contribute to national preparedness by growing a large part of the vegetables you need in **your own back yard!** Be ready! Plan and plant early, for whatever may come!

McCullough's \$1.50 Health-Giving Vegetable Seed Collection for the Home Garden for \$1.00

This popular collection will plant a garden about 25x40 feet. It is sold at a reduced price because it is put up ready to mail before the busy season starts. **The seeds are the very best we have, and the packets full size.**

WE CANNOT MAKE ANY CHANGES IN THIS COLLECTION. The collection is put up ready to ship, so we cannot change it in any way; you may order additional seeds to go with the collection.

The collection is composed of one packet each of the following seeds:

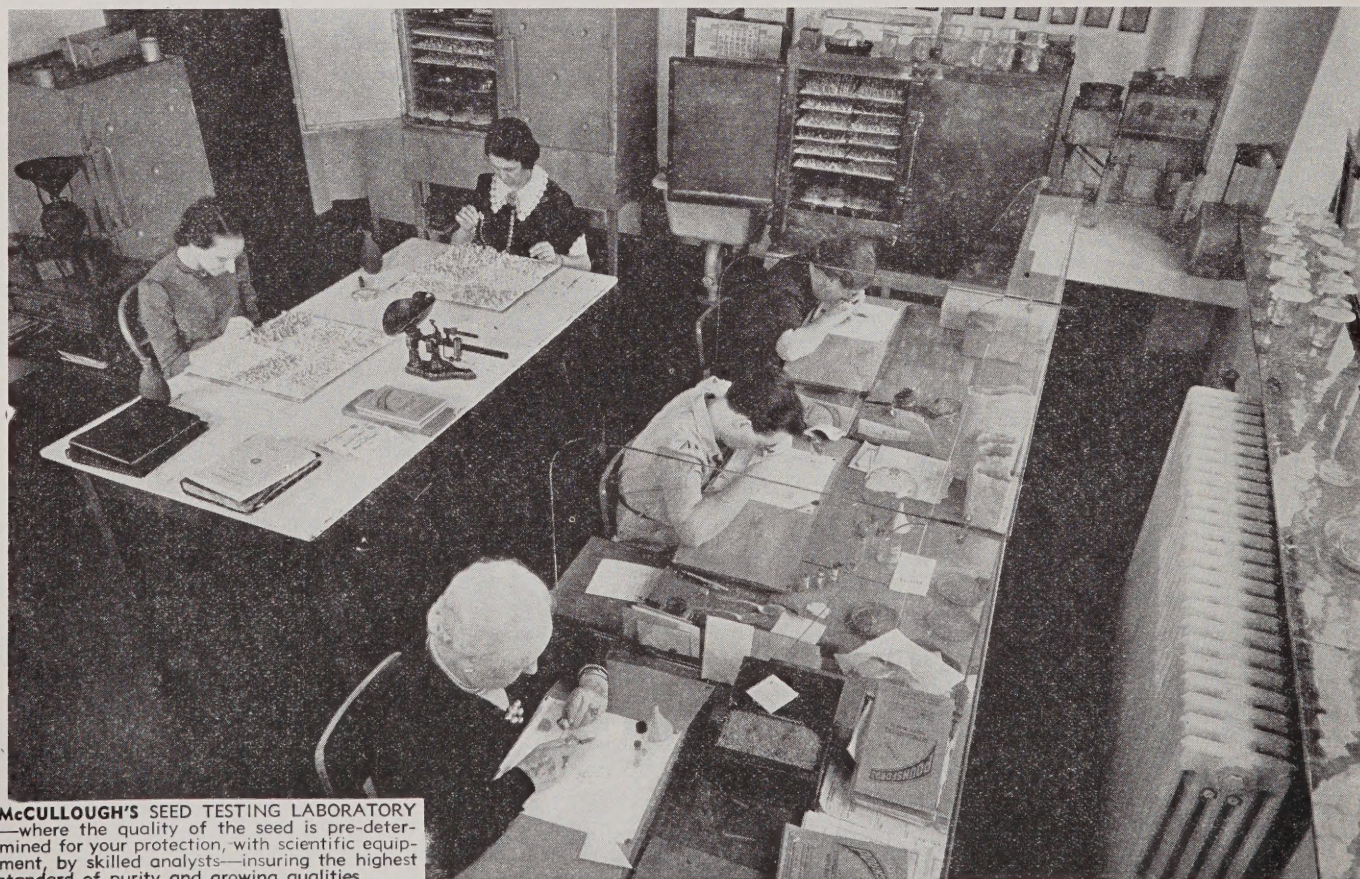
BEET, Detroit Dark Red
BEANS, Improved Golden Wax
BEANS, Stringless Green Pod
CABBAGE, Golden Acre
CARROT, Chantenay
ENDIVE, Green Curled

SWEET CORN, Wonder
Bantam
KALE, Dwarf Siberian
LETTUCE, Black Seeded
Simpson
PARSNIPS, Hollow Crown

PEAS, Little Marvel
RADISH, Icicle
RADISH, Early White
Tipped Scarlet
SALSIFY, Mammoth Sand-
wich Island

SPINACH, Bloomsdale
SWISS CHARD, Lucullus
TURNIP, Purple Top
White Globe
RUTABAGA, American
Purple Top

ASK FOR McCULLOUGH'S VEGETABLE COLLECTION—(Value \$1.50), for \$1.00 postpaid



McCULLOUGH'S SEED TESTING LABORATORY—where the quality of the seed is pre-determined for your protection, with scientific equipment, by skilled analysts—insuring the highest standard of purity and growing qualities.

ASPARAGUS

One ounce of seed will sow 75 feet of row and produce about 250 plants. Sow seed as early as possible in the spring. The plants should be set in the permanent bed when one or two years old. The Asparagus may be cut the third year after setting out the roots.

- WASHINGTON**—The Best Variety. This variety has proven as nearly rust-proof as is possible to produce Asparagus. It is much in demand on account of its heavy yield and fine flavor. The stalks are rich, dark green color, tinted darker at tips. Pkt., 10c; oz., 20c.

Fresh Dug Asparagus Roots Roots can be set from February to May, or in the fall, in October or November. 100 roots plant a bed 100 feet long and are sufficient for a medium garden. An acre requires 4000 to 7000 roots.

BEANS Dwarf or Bush Varieties

If planted every 2 or 3 weeks, commencing after all danger of frost has passed and continuing until about August 15th, a supply will be kept up during the whole summer.

One pound plants about 100 feet. An acre requires 1 to 1½ bushels. Half pound planted every 3 weeks is sufficient for a medium garden. They are ready for table from 40 to 50 days after planting.

Culture. For field culture plant in rows 2½ feet apart, dropping the Beans 3 to 4 inches apart in the rows, covering about 2 inches with soil.

Green Podded Beans

- TENDERGREEN.** One of the very best of the round, green-podded Beans. Fleshly pods about 6 inches long, strictly stringless and of fine quality. Very productive and closely resembles an improved Full Measure Bean.

Pkt., 10c; ½ lb., 20c; 1 lb., 35c; 2 lbs., 60c; 5 lbs., \$1.25.

- PLENTIFUL.** This outstanding variety won an All-America Award in 1939. It is a green, flat-podded, bush bean of the Bountiful type. Pods are long, straight and medium deep green. Extremely brittle and stringless.

Pkt., 10c; ½ lb., 20c; 1 lb., 35c; 2 lbs., 60c; 5 lbs., \$1.25.

- IMPROVED EARLIEST RED VALENTINE.** A well-known, very early sort. Pods of medium length, about 4½ inches long, of medium green color, curved, cylindrical, with crease in the back, very fleshy, crisp and tender. Vines medium to large.

Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 2 lbs., 55c; 5 lbs., \$1.10.

- STRINGLESS RED VALENTINE.** Similar to Improved Earliest Red Valentine except the pods are stringless.

Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 2 lbs., 55c; 5 lbs., \$1.10.

- STRINGLESS GREEN POD.**

A very handsome, long, cylindrical, green Bean. Pods larger than those of Valentine and straighter. Very fleshy and remain crisp and tender longer. Vines of vigorous growth and productiveness. A very desirable sort for home gardens and largely grown for market.

Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 2 lbs., 55c; 5 lbs., \$1.10.

- GIANT STRINGLESS GREEN POD.**

A highly productive and very handsome sort. Vines vigorous, spreading. Pods large, round, averaging larger and straighter than the Stringless Green Pod, but a few days later.

Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 2 lbs., 55c; 5 lbs., \$1.10.

WASHINGTON. (Rust-resistant.) A new rust-resisting, pedigreed Asparagus. It stands ahead of all others in size, vigor, tenderness and quality. 2-yr. roots, 25 for 75c; 100 for \$2.25, postpaid.

GROWING ASPARAGUS. The size of Asparagus depends more on high fertilization than on the variety. Well-drained, rich soil is best. Plow or dig out a trench 18 inches wide, 6 to 10 inches deep, making the trenches 6 to 8 feet apart. In the bottom of the furrow use 4 to 6 inches of well-rotted manure, then cover with 2 or 3 inches of good soil. The roots are set 12 to 15 inches apart, and should be spread out carefully and afterwards covered with about 2 inches of soil. Do not cover with too much soil the first year, but the following years they can be hilled up. If white Asparagus is wanted the beds should be thrown higher than if wanted for green Asparagus. Do not cut Asparagus too late in the spring, as it exhausts the plant. In November the tops are cut off and a mulch of manure put on the top of the rows.

In small gardens, rows may be 18 inches apart. Up to the time of blooming, cultivate often, but never while the vines are wet, and do not disturb the roots, especially after blooming, as they will blight and the crop will be reduced. Constant picking extends bearing.

Insect Remedies—For Mexican Bean Beetle, dust the under side of leaves with Rotenone. See page 61.

For fungous diseases and rust, spray with Bordeaux Mixture.

- DWARF HORTICULTURAL.** Very popular in most localities, especially for market, as they are valuable both for snap Beans and shelling. They become fit for use as shelled Beans early, and in this condition the Beans are large, easily shelled and equal to Lima Beans in quality. The vines are very productive, compact and upright in growth, with large leaves. The pods are 5 to 5½ inches long, broad, thick, curved and have splashes of bright red on yellowish green.

Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 2 lbs., 55c; 5 lbs., \$1.10.

- FORDHOOK FAVORITE.** There has always been a large demand for a white-seeded, dwarf, green-podded bean. Pods are round, fleshy, tender, and strictly stringless, 5½ to 6 inches long. Seeds pure ivory-white.

Pkt., 10c; ½ lb., 20c; 1 lb., 35c; 2 lbs., 60c; 5 lbs., \$1.25.

- FULL MEASURE (Perfection Stringless).** A very desirable round-podded variety with pods about 6½ inches long, which are solid, meaty, brittle and stringless. It is a little later than Stringless Green Pod and is a splendid Bean for home or market use.

Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 2 lbs., 55c; 5 lbs., \$1.10.

- STRINGLESS GREEN REFUGEE.** A stringless Bean having the many excellent qualities of Late Refugee or 1000 to 1. As hardy and productive as the old Late Refugee; seed same color, and retaining all the good qualities of that sort. Vine 15 to 18 inches tall. Pods 5½ inches long, round, meaty, slightly curved and containing 5 or 6 beans.

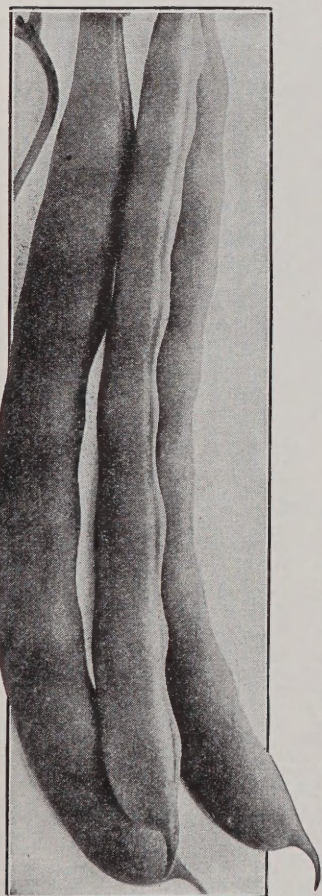
Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 2 lbs., 55c; 5 lbs., \$1.10.

- BOUNTIFUL.** An improved long Yellow Six Weeks; earlier, very much larger and more tender. It is very hardy, extremely early, prolific, and bears continuously for several weeks. Pods are flat, absolutely stringless, rich green, large and handsome. For very early or very late planting it is desirable for both home garden and market.

Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 2 lbs., 55c; 5 lbs., \$1.10.

- TENNESSEE GREEN POD.** A dwarf, early snap Bean, very hardy and more capable of withstanding inclement weather than most other sorts. The vines are large, somewhat spreading, prolific. The pods are very long (often 6 to 7 inches) flat, irregular in shape, of dark and vivid green color.

Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 2 lbs., 55c; 5 lbs., \$1.10.

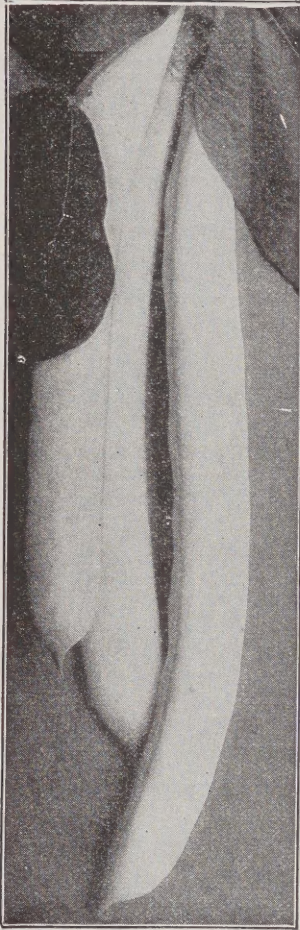


Giant Stringless Green Pod



Vegetable Garden at Hayfields, Indian Hill, Cincinnati, Ohio

DWARF WAX BEANS



Improved Golden Wax

14 ROUND POD KIDNEY WAX. Long, round, handsome, stringless pods of large size, very solid and full of meat, crisp, brittle, and free from rust. Pkt., 10c; $\frac{1}{2}$ lb., 20c; 1 lb., 35c; 2 lbs., 60c; 5 lbs., \$1.25.

15 WARDWELL'S KIDNEY WAX. A variety which matures a little later than the Golden Wax, yields large crops of long, nearly straight, broad pods of light golden yellow color. They are extremely showy, consequently are ready sale and most profitable for market gardeners and an excellent variety for growing in home gardens. Pkt., 10c; $\frac{1}{2}$ lb., 20c; 1 lb., 35c; 2 lbs., 60c; 5 lbs., \$1.25.

16 PENCIL POD BLACK WAX. One of the most popular varieties for home use and market. The pods are about $4\frac{1}{2}$ inches long, slightly curved, round, very brittle and tender. They are very fleshy, clear golden yellow and remain tender a long time. Pkt., 10c; $\frac{1}{2}$ lb., 20c; 1 lb., 35c; 2 lbs., 60c; 5 lbs., \$1.25.

17 CURRIE'S RUST-PROOF WAX. A variety which is claimed to be rust-proof. The vines are very vigorous, hardy, productive. Pods, light yellow, similar in shape to Golden Wax, $5\frac{1}{2}$ to 6 inches long. Matures early. Splendid for market and home use. Pkt., 10c; $\frac{1}{2}$ lb., 20c; 1 lb., 35c; 2 lbs., 60c; 5 lbs., \$1.25.

18 IMPROVED GOLDEN WAX. An early maturing variety, very productive. Vines erect, compact, bearing pods well off the ground. Pods nearly straight, broad, flat, golden yellow, very fleshy and waxlike, usually $4\frac{1}{2}$ to 5 inches long. A good sort for home garden either for table use or nickling. Pkt., 10c; $\frac{1}{2}$ lb., 20c; 1 lb., 35c; 2 lbs., 60c; 5 lbs., \$1.25.

INOCULATION FOR BEANS. Excellent results will be obtained by treating the seeds of Beans with NITRAGEN INOCULATOR before planting. Easily done. We have it in convenient size for small gardens. (See page 63).

Dwarf Beans—For Shelling Only

Culture. Plant in rows about $2\frac{1}{2}$ ft. apart. Require about $\frac{1}{2}$ bushel per acre. Other sorts about a bushel.

19 DWARF WHITE NAVY. The well known small oval white variety so largely used in all sections. $\frac{1}{2}$ lb., 15c; 1 lb., 25c; 2 lbs., 40c; 5 lbs., 85c.

20 DWARF WHITE MARROW. Beans oval, about double as large as Navy. Vines vigorous and productive. $\frac{1}{2}$ lb., 15c; 1 lb., 25c; 2 lbs., 45c; 5 lbs., 95c.

21 DWARF WHITE KIDNEY. Large white, kidney-shaped, slightly flattened. Pods about 6 inches long, large and coarse. Beans excellent quality either green or dry. $\frac{1}{2}$ lb., 15c; 1 lb., 25c; 2 lbs., 45c; 5 lbs., 95c.

22 DWARF RED KIDNEY. Similar to above, but dark pink color. Very salable. $\frac{1}{2}$ lb., 15c; 1 lb., 25c; 2 lbs., 45c; 5 lbs., 95c.

Cornfield Beans

Culture. Pole beans are more sensitive to cold and wet than Dwarf varieties, hence should not be planted too early. Use poles from 6 to 8 feet long in rows 4 feet apart, placing the poles 3 feet apart in the row. If the poles are slanted slightly to the north, the vines climb better and the pods are more easily seen. In home gardens 3 poles are usually placed wigwam style and tied at the top. Around each pole plant 4 to 6 beans from 1 to 2 inches deep. When ready to run, thin to 4 plants and see that they all climb the same way, as if trained wrong they will not climb. If to be planted in corn, this should be done after the corn is well started and has had 2 or 3 workings. An acre requires about 15 pounds of seed. One pound will plant 100 hills.

23 EARLY WHITE HALF RUNNER. The name of this Bean is strictly in keeping with the nature of the plant. It is exceptionally prolific. Vines are light green, 16 to 20 inches in height and have short runners. Pods light green, about $5\frac{1}{2}$ inches in length, containing 5 to 8 Beans. Thoroughly stringless when young. Also excellent as a dry shell Bean; flavor equal or better than Navy Beans. Pkt., 10c; $\frac{1}{2}$ lb., 20c; 1 lb., 35c; 2 lbs., 65c; 5 lbs., \$1.35.

24 IMPROVED KENTUCKY WONDER (Or Old Homestead). A well-known variety and one of the most popular of all Pole Beans, especially in the middle sections. The vines are very vigorous, heavy and very prolific, hence not desirable for planting in corn. Pods are of irregular shape, bright green, very long, often reaching 9 to 10 inches. They are very tender, crisp and stringless when young, but become irregular and spongy as the beans ripen. Pkt., 10c; $\frac{1}{2}$ lb., 20c; 1 lb., 30c; 2 lbs., 55c; 5 lbs., \$1.10.

25 WHITE-SEEDED KENTUCKY WONDER (St. Louis Perfection White). Similar to the above, excepting that the beans are different shape and solid white. It is early maturing, very desirable for snap beans and an excellent variety for green shelling and unsurpassed in quality as baked beans. Very profitable for market gardeners and highly praised in all sections. Pkt., 10c; $\frac{1}{2}$ lb., 20c; 1 lb., 30c; 2 lbs., 55c; 5 lbs., \$1.10.

26 MISSOURI WONDER. An extremely prolific variety, maturing in the same season or a little later than Improved Kentucky Wonder. A green podded variety of high quality. The pods are nearly as long as those of Improved Kentucky Wonder, but slightly broader and flatter and lighter in color. When in condition for snap beans, the pods are nearly stringless. Pkt., 10c; $\frac{1}{2}$ lb., 20c; 1 lb., 30c; 2 lbs., 55c; 5 lbs., \$1.10.

27 GENUINE LOGAN GIANT. If you want delicious, tender, fine flavored snap Beans, be sure to plant some Genuine Logan Giants. There is no Bean of its class that we have grown that is as tender and as fine quality. Many of our customers consider it the best Pole Bean they have ever grown. The pods, produced in clusters and in great abundance, are light green, 6 to 7 inches long, broad, round and slightly curved. From 10 days to 2 weeks earlier than Improved Kentucky Wonder. Pkt., 10c; $\frac{1}{2}$ lb., 20c; 1 lb., 35c; 2 lbs., 65c; 5 lbs., \$1.35.



Genuine Logan Giant

28 RED SPECKLED CUT SHORT or CORN HILL. A very popular variety, especially for planting among corn. It will give a good crop without the use of poles. The vines are not as heavy as Kentucky Wonder, being medium size, vigorous, twining loosely, with dark colored leaves. Pods are 3 to $3\frac{1}{2}$ inches long, straight, flat, fleshy and of good quality. As they mature the pods become light yellow tinged with red, the beans showing distinctly through the pods. Pkt., 10c; $\frac{1}{2}$ lb., 20c; 1 lb., 30c; 2 lbs., 55c; 5 lbs., \$1.10.

29 HORTICULTURAL POLE or SPECKLED CRANBERRY. A very popular variety for general purposes, either as a late green shelled bean or for snaps. The pods are of medium length, $4\frac{1}{2}$ to 5 inches long, broad; when young, pale green, gradually changing to yellowish green striped or splashed with red. Vines are moderately vigorous, with large light colored leaves. Can be grown on corn or on short poles. As shelled beans they equal Limas in flavor and are excellent to use as dry beans for boiling or baking. Pkt., 10c; $\frac{1}{2}$ lb., 20c; 1 lb., 30c; 2 lbs., 55c; 5 lbs., \$1.10.

30 WHITE CREASEBACK. An extremely early variety, which produces nearly all its pods at the same time. The vines are medium size and vigorous, and in rich soil wonderfully productive, bearing round, fleshy pods in clusters of from 4 to 12, which makes it extremely easy to gather. Pods are about 5 inches long, comparatively straight, attractive, light green, very fleshy, with a crease down the center. Pkt., 10c; $\frac{1}{2}$ lb., 20c; 1 lb., 30c; 2 lbs., 55c; 5 lbs., \$1.10.

CORNFIELD BEANS—Continued

31 SCOTIA or STRIPED CREASEBACK.

A hardy and very productive green-podded cornfield bean. The vines are sturdy and of good climbing habit with small, medium deep green leaves. The pods are long, about 6 inches, very cylindrical or completely rounded, distinctly creasebacked, very fleshy and of excellent quality. The color, when in condition for use as snaps, is light, silvery green, becoming tinged with purple as the pods mature. This variety is especially suitable for growing in corn for snaps.

Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 2 lbs., 55c; 5 lbs., \$1.10.

32 TENNESSEE WONDER or EGG

HARBOR. Large green pods, curved, tinged with purple and wrinkled, depressed between each of the eight or nine seeds. One of the largest of all cultivated beans.

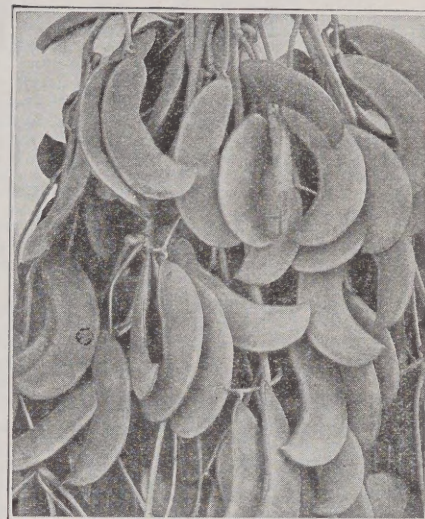
Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 2 lbs., 55c; 5 lbs., \$1.10.

33 LAZY WIFE. A somewhat late maturing variety, bearing medium green pods in large clusters. Pods are 5½ to 6½ inches long, broad, thick, fleshy and entirely stringless. When young, they have a rich flavor which is retained until they are nearly ripe. An excellent sort for either snap green, shelling, or using as dry beans.

Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 2 lbs., 55c; 5 lbs., \$1.10.

34 McCASLAN. The pods, produced in great abundance, are a rich, dark green color, measuring about 10 inches long, rather flat and slightly curved. Fine for use as a snap sort, being entirely stringless when young. If pods are picked before maturing, vines bear till frost. If pods are allowed to mature, they produce a good sized white bean for winter use.

Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 2 lbs., 55c; 5 lbs., \$1.10.



Burpee's Improved Bush Lima

Pole Beans—Wax Pod

35 OHIO WAX POLE. Pods usually 7 inches long, solidly meaty and entirely stringless; commences to bear when scarcely higher than bush variety, and keeps on producing until killed by frost.

Pkt., 10c; ½ lb., 20c; 1 lb., 35c; 2 lbs., 60c; 5 lbs., \$1.25.

36 GOLDEN CLUSTER WAX. One of the best wax podded pole snap beans. Vines large, vigorous and hardy. Pods 6 to 8 inches long, borne in clusters and vary in color from golden yellow to creamy white.

Pkt., 10c; ½ lb., 20c; 1 lb., 35c; 2 lbs., 60c; 5 lbs., \$1.25.

LIMA BEANS—DWARF or BUSH

Culture. All Lima Beans are tender and the ground should be dry and the weather warm and settled before planting. They do best in good light soil, and if not rich, an application of sheep manure or other good fertilizer will be well repaid. Plant in drills, 1½ to 2 feet apart, dropping the beans 4 to 5 inches apart and covering about 2 inches deep. Cultivate often until they commence to flower, but only when the leaves are dry.

A pound of seed will plant about 150 feet of row. About 60 pounds per acre. For succession, make two plantings four weeks apart. Mature in 75 to 90 days from planting.

37 BURPEE'S IMPROVED BUSH LIMA. Pods and beans are both larger and thicker than Burpee's Bush Lima, and fully 8 days earlier. Plant is a vigorous grower with heavy foliage. Even when of full size the enormous beans are most luscious.

Pkt., 10c; ½ lb., 25c; 1 lb., 40c; 2 lbs., 75c; 5 lbs., \$1.50.

38 FORDHOOK BUSH LIMA. A very vigorous and erect growing variety, bearing its pods well above the ground in large clusters. Pods are medium green, about 5 inches long and contain 4 to 5 large, thick Beans of exceptionally fine quality. We consider this one of the best of the large-seeded kinds.

Pkt., 10c; ½ lb., 25c; 1 lb., 45c; 2 lbs., 85c; 5 lbs., \$2.00.

39 BURPEE'S BUSH LIMA. A bush form of the Large White Lima type. Plants are somewhat dwarf but very productive. Pods are medium green, broad, containing 3 to 4 very large flat beans of the best quality. Seed large, flat, white, with slightly greenish tinge.

Pkt., 10c; ½ lb., 20c; 1 lb., 35c; 2 lbs., 65c; 5 lbs., \$1.35.

40 HENDERSON'S BUSH LIMA. An exceedingly productive variety of dwarf habit. Commences bearing very early and continues to grow and set pods until stopped by frost. The vines are without runners, somewhat dwarf, very productive. Beans small, white and of most excellent quality either for green shelling or as dry Beans.

Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 2 lbs., 55c; 5 lbs., \$1.10.

ALL
VEGETABLES
SPELL
H-E-A-L-T-H

MAMMOTH PODDED POLE LIMA BEANS

Large seeded sorts require 2 pounds to 100 poles, ¾ bushel to an acre. Small Limas require about one-third the quantity.

Culture. These are to be treated like other Pole Beans excepting they should be planted one or two weeks later. Where soil is very stiff, it is best to plant the beans with the eye downward, as they will come up more rapidly.

42 FORD'S MAMMOTH PODDED. The result of 20 years' selection by a market gardener near Philadelphia. It far surpasses in size and productiveness many other sorts and has become very popular throughout all sections. Pods are very large, usually containing 4 to 6 beans. Vines vigorous, setting the Beans early, and very productive.

Pkt., 10c; ½ lb., 20c; 1 lb., 35c; 2 lbs., 65c; 5 lbs., \$1.35.

43 KING OF THE GARDEN. A favorite sort on account of its large size and abundant yield. The Beans are of greenish color, very tender and delicious.

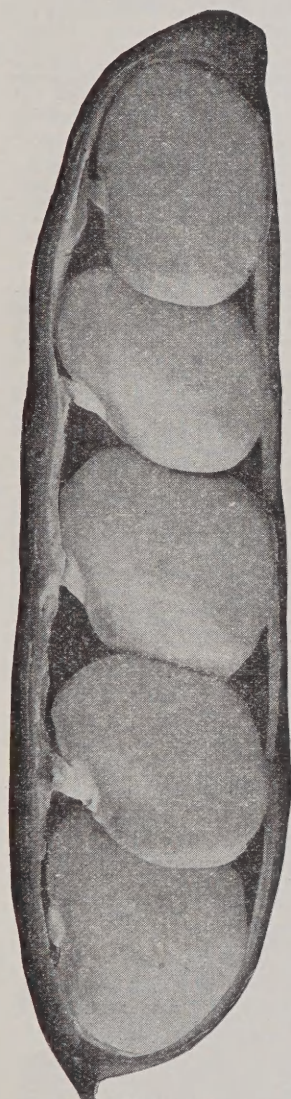
Pkt., 10c; ½ lb., 20c; 1 lb., 35c; 2 lbs., 65c; 5 lbs., \$1.35.

44 EXTRA LARGE WHITE POLE LIMA. A choice variety of the Large Lima. Pods and Beans of large size; good cropper. Quality unsurpassed.

Pkt., 10c; ½ lb., 20c; 1 lb., 35c; 2 lbs., 65c; 5 lbs., \$1.35.

45 SMALL LIMA or SIEVA. Also called Butter or Carolina. Not as large as the other varieties but a good bearer and about 10 days earlier.

Pkt., 10c; ½ lb., 20c; 1 lb., 35c; 2 lbs., 65c; 5 lbs., \$1.35.



King of the Garden
Pole Lima

TABLE BEETS

Beets fresh from the garden are always more tender and delicious than those that are shipped. They can be sown in succession for different seasons and if too many are produced for table use, make excellent food for poultry and stock.

Culture. A deep loamy or sandy soil is best suited to Beets. If wanted very early they can be sown in hotbeds and transplanted in the open ground when the weather has moderated, but the outer leaves should be trimmed off when transplanting is done. The earliest outdoor sowing is done in March or April, in rows 15 to 18 inches apart, thinning or transplanting the plants to 3 or 4 inches apart in the rows. For winter use, sow in June or July. Roots can be stored in pits or cellars, covering with sand to keep from wilting.

One ounce sows 60 feet of drill. Ten pounds 1 acre. Ready for use 60 to 75 days after sowing.

46 EARLY WONDER. This is the best Beet for early use. The highest quality for the home garden. Pkt., 10c; oz., 15c; ¼ lb., 35c; 1 lb., \$1.00.

47 CROSBY'S IMPROVED EGYPTIAN. An improved sort

which is very popular with the market gardeners on account of its quick growth, extreme earliness, and general good qualities. The tops are small, roots flattened but slightly globe-shaped and very smooth. Exterior bright red and inside deep vermillion-red zoned with a lighter shade. It becomes fit for use earlier than any other variety and is much superior to some of the older sorts.

Pkt., 10c; oz., 15c; ¼ lb., 35c; 1 lb., \$1.00.

48 DETROIT DARK RED. Produces medium size globe-shaped roots which are very smooth and of bright red color. Very desirable for bunching. Comparison with other varieties proves that **Detroit Dark Red** is the most uniform Beet in size and most attractive in color.

Pkt., 10c; oz., 15c; ¼ lb., 35c; 1 lb., \$1.00.

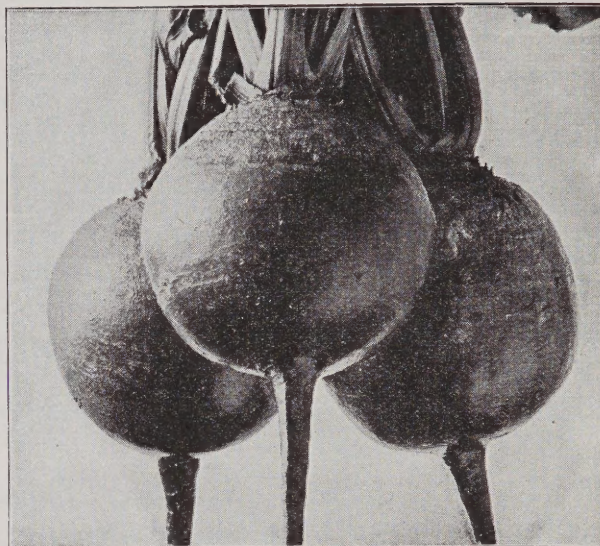
49 EARLY ECLIPSE. The tops are small, roots bright deep red, smooth, round or slightly top-shaped with a very small tap root. It is splendid for bunching; is very sweet, crisp and tender, especially when young.

Pkt., 10c; oz., 15c; ¼ lb., 35c; 1 lb., \$1.00.

50 NORWOOD BLOOD TURNIP. A superb early main crop variety, both for market and the home garden. The roots are of turnip shape, bright red, tender, and of excellent flavor.

Pkt., 10c; oz., 15c; ¼ lb., 35c; 1 lb., \$1.00.

51 EXTRA EARLY EGYPTIAN. It is the earliest sort and largely used for forcing. Has very



Norwood Blood Turnip beet

small tops and produces flat, medium size roots which are very dark red, moderately thick and distinctly flat on the bottom. Flesh is dark, purplish red, firm, crisp, and tender.

Pkt., 10c; oz., 15c; ¼ lb., 35c; 1 lb., \$1.00.

52 EDMAND'S EARLY BLOOD TURNIP. A dark red, nearly round variety which is slightly flattened. Exterior, dark red; interior, purplish red with a little zoning. Crisp, tender, sweet, and one of the best for main crop, being an excellent keeper.

Pkt., 10c; oz., 15c; ¼ lb., 35c; 1 lb., \$1.00.

53 IMPROVED EARLY BLOOD TURNIP. A selected stock of this old and very popular variety. It is of deep red color, zoned with lighter shade; roots round, slightly flattened and excellent for summer and autumn use.

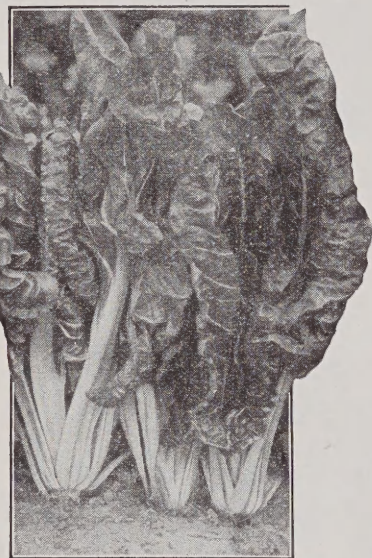
Pkt., 10c; oz., 15c; ¼ lb., 35c; 1 lb., \$1.00.

54 DEWING'S BLOOD TURNIP. A medium early sort which is very tender and sweet and a good keeper. Roots are dark purplish red, turnip shape with a medium size tap root.

Pkt., 10c; oz., 15c; ¼ lb., 35c; 1 lb., \$1.00.

55 LONG SMOOTH BLOOD. A splendid late variety producing large, smooth, rather slender roots which grow largely under ground. It has few side roots and is good shape and color, exterior being dark purple, almost black, with delicate red flesh which is tender and sweet. Produces very good crops so that it is a profitable grower for stock feeding.

Pkt., 10c; oz., 15c; ¼ lb., 35c; 1 lb., \$1.00.



SWISS CHARD

56 LUCULLUS. This variety is grown for its leaves only which are boiled like spinach. Sown in the spring the leaves are soon ready to eat and will continue to produce all summer and fall. Known also as Spinach Beet.

Pkt., 10c; oz., 15c; ¼ lb., 50c; 1 lb., \$1.50.

Try
**Silver Cross Bantam Hybrid
SWEET CORN**

(See Page 9)

You Won't Be Disappointed.

Beets for Stock Feeding

Too little attention is paid to this important crop for winter feed for stock. They yield enormously, sometimes making 15 tons to the acre; are very nutritious, not only improving the general condition of stock, but greatly increase both the quantity and quality of milk in cows. A variety of feed is always beneficial to all animals and the Mangel-Wurzel and Sugar Beets afford one of the best crops for this purpose, as they are superior in feeding qualities to turnips and are a much larger yielding crop. All farmers and especially stock raisers should grow them extensively.

Culture. Sow in the latter part of April, May, or June, at the rate of six pounds to the acre, in rows 2½ to 3 feet apart and thin to 8 inches apart. If seed is soaked 24 hours before sowing, it germinates more quickly but it should be put in when the ground is moist. The crop is harvested before frost and packed away in barns or cellars. They can also be put into piles or ridges 5 to 6 feet high and covered with straw or litter to keep from freezing too much. When the winter weather comes, throw on a layer of 4 to 6 inches of earth. A protection of boards to shed the heavy rains is also desirable.

57 MAMMOTH PRIZE RED MANGEL. Particularly suited to deep soils but succeeds on any medium or heavy soil. The roots are very large, uniform, and are enormously productive. Flesh is white, tinged with red. One of the best for general purposes. Oz., 15c; ¼ lb., 40c; 1 lb., \$1.25.

58 GOLDEN TANKARD MANGEL. A variety which produces very large roots, oval shaped, the bottom being larger than the top. It is light grey above the ground; deep orange-yellow below, flesh yellow zoned with white. A splendid sort for shallow soil and produces enormously on rich ground.

Oz., 15c; ¼ lb., 40c; 1 lb., \$1.25.

59 LANE'S IMPERIAL SUGAR. A very popular variety for stock and one which will succeed well in this latitude. The roots grow to a large size and it is more like a Mangel-Wurzel in character but the flesh is sweeter and more tender, being finer grained. Especially valuable for poultry.

Oz., 15c; ¼ lb., 40c; 1 lb., \$1.25.



Mangels



Italian Green Sprouting Broccoli

Broccoli

60 ITALIAN GREEN SPROUTING (Calabrese). The truest heading strain. A packet will produce about 200 plants; an ounce about 2000. Broccoli is grown the same as cabbage or cauliflower. Simply sow the seed in the open ground in May and transplant the plants when large enough. Plant forms a large, solid head which remains green. When the central head is cut, numerous sprouts develop from the leaf axils, each sprout terminating in small, green heads. A popular delicacy for the entire family. **Pkt., 10c; ½ oz., 25c; oz., 40c.**

Brussels Sprouts

One ounce makes about 2000 good plants.

A vegetable of the cabbage family which is largely used in the fall. It should be more largely grown in home gardens. It produces stalks about 2 feet high, which are covered with small heads resembling miniature cabbage. These are cooked and served like cabbage and are very tender and delicious.

Culture. Same as for late cabbage, but plants are set closer together.

61 PERFECTION. A semi-dwarf variety and one of the best. **Pkt., 10c; oz., 40c.**

CABBAGE CHOICE SELECTED STOCKS

Culture. For earliest plants the seed is sown in hotbeds from January to March. To make the best plants, sow early and transplant to cold frames. Then at the end of March or the first of April transplant to the garden.

One ounce makes about 2000 good plants.

Six ounces make plants enough for 1 acre.

Yellows-Resistant Cabbage Seed

Varieties listed below are the result of special breeding against Yellows or Wilt Disease, an infection frequently attributed to hot or dry weather. Our stock seed is selected rigidly and continuously for type and resistance. We offer only **first generation** seed from such stock.

62 ALL SEASONS Yellows Resistant. Recommended for "yellows" sick soil where the flatter type of domestic cabbage is wanted for kraut, etc. A very uniform stock producing large crops and very highly resistant. **Pkt., 15c; oz., 60c; ¼ lb., \$1.75.**

63 GOLDEN ACRE Yellows Resistant. True to type and earliness and in addition will produce good crops on "yellows" sick soil where regular Golden Acre cannot do well. **Pkt., 15c; oz., 75c; ¼ lb., \$2.00.**

64 MARION MARKET. Highly resistant to yellows; round head, short stem, will permit close planting. Earliest of all yellows-resistant varieties selected from Copenhagen Market. **Pkt., 15c; oz., 60c; ¼ lb., \$1.75.**

65 WISCONSIN HOLLANDER. This is a strain of Hollander or Danish Ballhead. A heavy yielding, round head, deep green, with a purple or bluish tint on the edges. **Pkt., 15c; oz., 60c; ¼ lb., \$1.75.**

Early Varieties

66 GOLDEN ACRE. This is an early, round-headed Cabbage which closely resembles Copenhagen Market in type. As its name implies, it is a money-maker. It is 8 to 10 days earlier than Copenhagen Market but is smaller and can be planted closer. Because of its earliness and fine quality, it commands a higher price than any round-headed Cabbage. **Pkt., 10c; oz., 50c; ¼ lb., \$1.50.**

67 EARLY JERSEY WAKEFIELD. One of the earliest and by far the surest heading of first early Cabbages. Most gardeners depend upon it entirely for their extra early crop. It is exceedingly hardy, resists cold and unfavorable conditions and is the most likely to yield satisfactory results. Plants are compact, with erect conical heads and few outer leaves. Stems short; heads of medium size, very solid and of excellent quality. **Pkt., 10c; oz., 35c; ¼ lb., 95c.**

68 EARLY WINNINGSTADT. One of the best conical or sharp heading sorts which is compact and of excellent quality. Quick maturing. It is the hardest not only as regards frost but will suffer less from excessive wet, drought, insects, or disease than any other sort of its class. **Pkt., 10c; oz., 30c; ¼ lb., 90c.**

69 COPENHAGEN MARKET. The earliest round-head or flat Cabbage yet introduced. The heads are exceptionally large and it has a very short stem and few outer leaves—a most excellent sort for home gardens and market gardeners. On account of extreme earliness, it is destined to become one of the leading sorts grown, as a flat Cabbage fills barrels or crates faster than sharp head Cabbage and will yield the grower more returns. We predict for Copenhagen Market an extensive cultivation. Our stock is from one of the best Denmark growers. **Pkt., 10c; oz., 40c; ¼ lb., \$1.25.**

Medium Early Varieties

72 ALL SEASONS. One of the largest and a thoroughly satisfactory second early sort. Plants are vigorous, sure heading; leaves large and smooth. This is a first-class sort both for early and late planting and is especially adapted for kraut. It is well adapted to stand the hot sun and adverse conditions. **Pkt., 10c; oz., 30c; ¼ lb., 90c.**

73 EARLY DWARF FLAT DUTCH. A variety which has long been popular among growers, both for home use and markets. The heads are borne on short stems and are very large, solid, and nearly flat on top. Practically every plant will form a good, solid head which will mature earlier than Late Flat Dutch. **Pkt., 10c; oz., 30c; ¼ lb., 90c.**

75 ALL HEAD EARLY. As early as most of the early summer Cabbages; the deep, flat heads are extremely solid and uniform in color, shape, and size. Splendid for kraut. **Pkt., 10c; oz., 30c; ¼ lb., 90c.**

Main Crop Varieties

77 PREMIUM LATE FLAT DUTCH. A very superior strain of this well-known, popular Cabbage which is exceptionally reliable for main crop planting. It is short stemmed; has rather large, early leaves, and produces uniformly large, flat, deep, solid heads of splendid quality. It is an excellent keeper and can be relied upon as thoroughly satisfactory. **Pkt., 10c; oz., 30c; ¼ lb., 90c.**

78 LARGE AMERICAN DRUMHEAD. One of the oldest and most popular late sorts, producing large, rounded heads. Has been grown for many years and ours is improved stock. Heads somewhat more globe-shaped than Late Flat Dutch. Leaves large, loose, spreading. Keeps well. **Pkt., 10c; oz., 30c; ¼ lb., 90c.**

79 DANISH BALLHEAD. It produces very large, solid heads, which are globular in shape, has few but rather large, thick, bluish green leaves. Heads are borne on short stems, are of medium size, round, very solid, and stand shipment better than any other late sort. One of the very best keepers and much desired for kraut. Our stock is Denmark grown and very select. **Pkt., 15c; oz., 60c; ¼ lb., \$1.75.**

81 PERFECTION DRUMHEAD SAVOY. Too little attention is paid to the Savoy cabbages. It is used almost entirely for late planting and attains its greatest perfection in flavor after frost, when it becomes as tender and even more delicious than cauliflower. The heads are of medium size, borne on short stems, and not as large as the ordinary late cabbage, hence will stand closer planting. Our stock of this is American grown and will produce uniformly large heads for this variety. We strongly recommend it to be more extensively grown both for home use and market. **Pkt., 10c; oz., 30c; ¼ lb., 90c.**

Red Cabbage

82 MAMMOTH RED ROCK. A variety used mainly for pickles and sauerkraut. It is highly esteemed. **Pkt., 10c; oz., 50c; ¼ lb., \$1.50.**

Chinese Cabbage

Also called "Celery Cabbage."

An ounce of seed will sow 40 to 50 feet of row, a packet 3 feet.

This vegetable of the cabbage family has become extremely popular. The large mid-ribs of the leaves are perfectly white and very crisp and tender. It is excellent when used as a salad, being of a very delicate flavor slightly resembling raw cabbage but more delicious. It is so easily raised that everyone who has a garden should enjoy it.

The seed should be sown not earlier than the first of July in rows 2½ feet apart, and the plants thinned 18 to 20 inches apart in the rows. If sown early it soon runs to seed and is useless. The crop matures in 8 to 10 weeks.

83 CHIHILI. This is the earliest variety of Chinese Cabbage and heads more evenly than any other kind. The heads are pointed, very firm, and when matured are often 18 inches long, blanched pure white inside and are of very fine quality. Chihili is rapidly superseding the older varieties, as the attractive heads sell readily, making this a very profitable crop to grow. Our strain of Chihili is very uniform. **Pkt., 10c; oz., 35c; ¼ lb., 95c.**



Chihili Chinese Cabbage
Grown by Fred Meyer—Madisonville,
Cincinnati, Ohio

THE BEST TABLE CARROTS

An easily grown, useful and most healthful vegetable which should come into more extensive use. They add flavor to soups and meats, besides being healthful, delicious and to an extent ornamental, and should be more largely used. In addition to their table uses, they make excellent pickles, and any that are left over are nutritious food for all kinds of stock and poultry.

Culture. Carrots do best in rich, light loamy soil, and where the soil is shallow or stiff, select the short growing varieties, rather than the longest rooted sorts. For early crop sow in March; for main crop in April or May, in rows 18 inches apart, cultivating and weeding as soon as the plants are up. Continue in cultivation until maturity. Cover the seed half an inch deep and see that the soil is pressed firmly, thin to 4 to 6 inches apart. One ounce sows 200 feet of row; 2 to 4 pounds per acre.

88 OXHEART (Or Guerande). A short, thick growing variety, especially adapted to stiff or hard soils. Roots $4\frac{1}{2}$ to 5 inches long, very thick, ending abruptly in a small tapering root. Flesh bright orange, finest quality, an excellent sort for market or home use and fine for stock feeding and poultry. Pkt., 10c; oz., 30c; $\frac{1}{4}$ lb., 80c.

89 IMPERATOR. Award of Merit, All-America Selections 1933. Fine variety for home use. Sloping shoulders and semi-blunt end; 7 to 8 inches long; rich orange color with indistinct core. Pkt., 10c; oz., 40c; $\frac{1}{4}$ lb., \$1.25.

90 DANVERS HALF LONG. A deep orange, tender variety, producing roots of medium length, 6 to 8 inches long, tapering uniformly to a blunt point. They are very productive and well adapted to nearly all classes of soil for main crop planting. Pkt., 10c; oz., 30c; $\frac{1}{4}$ lb., 80c.

91 CHANTENAY. A medium early variety, orange-red color, crisp and tender. Roots smooth, thick, $5\frac{1}{2}$ to 6 inches long, uniformly stump rooted but tapering slightly. One of the best in quality and productiveness for either home garden or market and especially desirable for heavy soils, because it can be harvested easily.

Pkt., 10c; oz., 30c; $\frac{1}{4}$ lb., 80c.

92 IMPROVED LONG ORANGE. A well-known popular sort, well adapted for loamy or deep soil, on which are produced very large crops. Roots deep orange color, usually about 12 inches long, 3 inches in diameter at the crown, tapering to a point. An excellent sort for table use, markets and particularly adapted for stock feeding. Roots tender and of good quality.

Pkt., 10c; oz., 30c; $\frac{1}{4}$ lb., 80c.

Imperator
Carrots

CELERY

Culture. For the earliest crop the seed should be sown in hotbeds from the middle of February to the end of March. For main crop sow in open ground March or April, according to the weather, in rows 15 inches apart. The seed is sometimes slow to germinate, and in dry and hot weather water well. Careful weeding by hand will have to be done until the young plants get started. Seed sown in beds should be transplanted. When the plants are set in the open field, trim the tops off and put in rows about 5 feet apart, setting plants 6 to 8 inches apart. Cultivate constantly during the growing season, and as the crop matures it must be earthed up or blanched. Sometimes this is done by placing two boards upright, close to the plants and filling in dirt both on the sides and between the plants. The stalks are handled by hand but the soil must not be allowed to get in the center. An ounce of seed produces about 3,000 plants.

99 IMPROVED WHITE PLUME. An extra early and very handsome sort which is very popular with market gardeners, especially for very early crop. Leaves are light, bright green at the base, shading nearly white at the tip. As plants mature, the inner stem and leaves turn white and consequently require less earthing and blanching before they are in condition to use for market. Pkt., 10c; oz., 35c; 2 ozs., 60c.

100 GOLDEN PLUME or WONDERFUL. Early and very desirable for home and market garden. Plants medium sized; stocky, full hearted and compact; thick, solid stalks blanch readily and are of the finest table quality.

Pkt., 10c; oz., 50c; 2 ozs., 90c.

101 GOLDEN SELF BLANCHING. This is not only a very early variety but one of the best for home use or market. It is not quite so early as White Plume but so much finer quality that it is generally preferred as a main crop sort. Plants are medium size, compact and stocky, with yellowish green foliage. As they mature, the inner stem turns a beautiful golden yellow color and blanching is easily accomplished. Being of handsome color, very crisp, tender, free from stringiness and of fine flavor, it is the leading sort grown. Pkt., 10c; oz., 50c; 2 ozs., 90c.

102 GIANT PASCAL. A green leaf variety of the Golden Self Blanching type, and one of the best for fall and early winter use. It blanches a beautiful yellowish white, is very solid and crisp and has a fine nutty flavor. Stalks of medium height, thick, solid, flattening towards the base and one of the best for main or late planting. Pkt., 10c; oz., 35c; 2 ozs., 60c.

103 CELERIAC or TURNIP-ROOTED CELERY. Used for its roots only, which have a fine, sweet, nutty celery taste. It is used either boiled or raw, has a delightful flavor and can be used in soups, salads or as a table vegetable. Culture about the same as for celery. Pkt., 10c; oz., 35c; 2 ozs., 60c.

Celery Plants supplied in season, (June, July and August). We do not send these plants by mail.

**EAT VEGETABLES
ADD TO YOUR HEALTH**

Collards

Although often sown during the spring and summer, the principal sowings are made in June, July and August, transplanted 2 feet apart in the row and given frequent cultivation. A most excellent vegetable for the late fall, winter and early spring. The flavor is improved by frost. Cultivate like late cabbage.

105 GEORGIA or SOUTHERN. Stands cold weather and adverse conditions splendidly and grows on land too poor to make a crop of cabbage.

Pkt., 10c; oz., 15c; $\frac{1}{4}$ lb., 40c.

CAULIFLOWER

One of the most delicious vegetables in cultivation but on account of its difficulty in growing, not so general in the average garden as it should be. Anyone, however, can be reasonably sure of success if good seed is obtained and the cultural instructions given below followed.

Culture. For early spring or summer crop sow the seed in January or February in hotbeds. When the plants have four leaves, transplant to cold frames for development. Toward the end of March or early part of April, set in open field and cultivate the same as cabbage. If the soil gets very dry, water well when possible. When the plants are set in the garden, the ground should be rich; if not so, a little sheep manure or well-rotted manure should be worked into the soil before the plants are set out. The plants should be thoroughly worked during the growing season and when the heads commence to form, the leaves should be tied over the flowers to protect from the sun and make them white. For fall use sow at the same time as late cabbage and treat in the same manner. Cauliflower will not head in very hot weather—hence for fall use, too early sowing is not desirable.

One-fourth ounce produces about 500 plants. Three ounces will make enough plants to set 1 acre.

Cauliflower plants supplied in season. We do not send these plants by mail.

96 EARLY SNOWBALL. Unquestionably the earliest maturing strain of short leaf type of Cauliflower. It is well adapted for forcing or winter use for early crop and is one of the most popular of all sorts, both for the market gardener and for home use. The plants are compact, leaves small, and can be adapted for close planting. Produces large size, pure white flowers, of most excellent quality. Our strain is of selected Denmark grown and can be relied on as one of the most satisfactory of all.

Pkt., 50c; $\frac{1}{4}$ oz., \$2.00; oz., \$6.00.



Golden Plume Celery

SWEET CORN

Our Northern Grown Sweet Corn is far superior in quality and earliness to the same varieties raised from seed grown in the South and West, where most of the Sweet Corn seed is grown.

One pound plants about 200 hills, 12 to 14 pounds to an acre. For succession, plant about every 2 weeks from April to the end of July; ready for the table 60 to 90 days from planting.

Culture. Garden-Field varieties can be planted at the end of March or early in April. Sugar or Sweet Corns are more tender and should not be planted until warm weather is settled and the ground becomes warm. Cultivate frequently and keep the ground free of weeds.

Yellow Varieties

107 MARCROSS C6.13 HYBRID. Developed by the Connecticut Experiment Station as a first early market and home garden variety (72 days). Stalks short but sturdy, highly resistant to Stewart's disease. The ears are very attractive, long, plump, abruptly tapered at tips, with 10 to 14 rows of light cream-yellow kernels of fine quality.

Pkt., 10c; ½ lb., 30c; 1 lb., 50c; 2 lbs., 95c; 5 lbs., \$2.10.

108 GOLDEN CROSS BANTAM HYBRID. (84 days). For even growth, maturity and heavy yield and fine large ears, this variety is without equal. Highly resistant to Stewart's disease and very prolific. Stalks sturdy, about 7 feet high. Ears measure 7¾ to 8 inches in length, 10 to 14 rowed, kernels rich yellow in color. Now the most extensively used Hybrid.

Pkt., 10c; ½ lb., 25c; 1 lb., 45c; 2 lbs., 85c; 5 lbs., \$2.00.

109 GOLDEN BANTAM. Selected Northern Grown. The most popular variety of yellow Sweet Corn ever offered; also one of the earliest and hardiest. It can be safely planted earlier than other varieties. The plants rarely grow over 3½ feet in height, and usually bear at least 2 ears, 5 or 6 inches long, on each stalk. Many people assert that Golden Bantam is the sweetest of all Corns; its plump, rich, cream-yellow kernels are tender, milky, and delicious. All our Golden Bantam seed is northern grown, making it especially valuable for early planting.

Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 2 lbs., 55c; 5 lbs., \$1.25.

114 SILVER CROSS BANTAM HYBRID. (82 days). You know the merits of Golden Cross Bantam, now try the pearl-white Silver Cross Bantam. Similar to Golden Cross in plant type and maturity. Silver Cross grows slightly taller and is larger eared. It is 12 to 14-rowed and extremely tender. We recommend this Corn very highly.

Pkt., 10c; ½ lb., 25c; 1 lb., 40c; 2 lbs., 75c; 5 lbs., \$1.50.

White Varieties

110 WONDER BANTAM. There has been an ever-increasing demand for an early Sweet Corn having all of the good qualities of Golden Bantam Sweet Corn, together with a larger ear and having about the same maturing season. To accomplish this, Wonder Bantam has been introduced by the crossing of Early Wonder and Golden Bantam Sweet Corn. The stalks grow from 5 to 6 feet in height and have ears 8 to 10 inches in length filled with 8 rows of rich, golden colored kernels. It is a variety that will appeal to the critical market and home gardener.

Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 2 lbs., 55c; 5 lbs., \$1.25.

111 GOLDEN SUNSHINE. The earliest of the Golden Bantam type, maturing a week to 10 days earlier than that variety. More dwarf in habit than Bantam, with ears 6½ inches long, containing 12 rows of broad, yellow, sweet grains. Especially desirable for its extreme earliness.

Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 2 lbs., 55c; 5 lbs., \$1.25.

112 GOLDEN GIANT. It excels all other early varieties of Corn in size, productiveness and quality; and all the late varieties in quality and early maturity while equaling them in size.

Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 2 lbs., 55c; 5 lbs., \$1.25.

113 BANTAM or GOLDEN EVERGREEN. A cross between Golden Bantam and Stowell's Evergreen and is a most excellent sort of fine quality. The ears average 8 inches long and are 12-rowed, the grain is rather broad and deep and of a rich golden yellow color.

Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 2 lbs., 55c; 5 lbs., \$1.25.

115 WHIPPLE'S EARLY WHITE. Of the narrow-grained Evergreen type, but ready for use much earlier. Ears 8 to 9 inches long, 16 to 18 rows of pearly white grains. The chief distinction of this variety is that it is by far the earliest of the narrow-grained Evergreen types and has a larger sugar content.

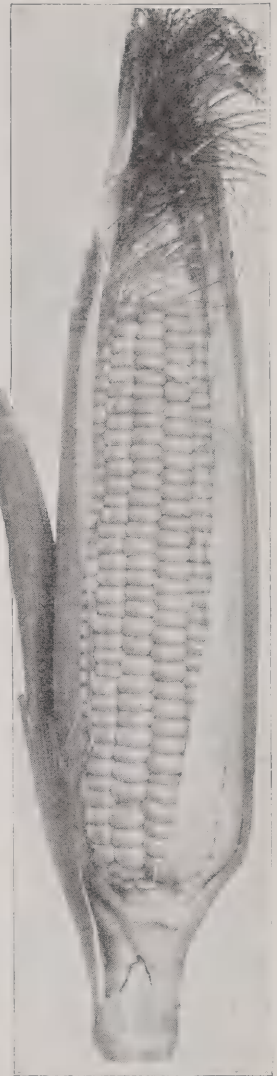
Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 2 lbs., 55c; 5 lbs., \$1.25.

116 EARLY EVERGREEN. An early strain of Evergreen of great value. This variety resembles the Stowell's Evergreen, but is ready for use much earlier and remains in good condition equally as long. The ears grow to a good size, usually about 7 inches long, and contain from 16 to 18 rows of deep, sweet grains.

Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 2 lbs., 55c; 5 lbs., \$1.25.

117 HOWLING MOB. A popular, productive, large-eared variety; valuable for home and truck gardeners. Ears measure 7 to 9 inches in length, 12 to 16 rows; white grains. Stalks strong, of vigorous growth, 5 to 6 feet in height, have abundant foliage and usually produce 2 good ears to the stalk.

Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 2 lbs., 55c; 5 lbs., \$1.25.



Golden Cross Bantam

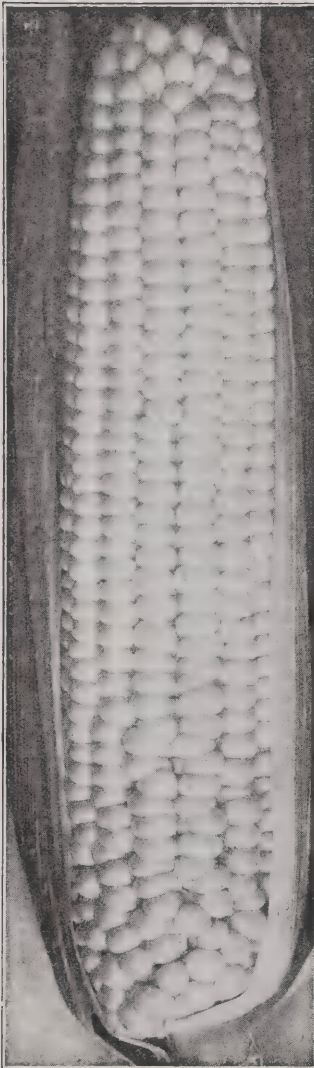


Plant Plenty of Vegetables To Eat from Your Garden and to Can

MARCROSS C6.13 HYBRID

Developed by the Connecticut Experiment Station as a first early market and home garden variety (72 days). Stalks short but sturdy, highly resistant to Stewart's disease. The ears are very attractive, long, plump, abruptly tapered at tips, with 10 to 14 rows of light cream-yellow kernels of fine quality.

Pkt., 10c; ½ lb., 30c; 1 lb., 50c; 2 lbs., 95c; 5 lbs., \$2.10.



Stowell's Evergreen

DILL

A packet will sow 10 ft.; an ounce 50 ft. of row.

147. Dill is an annual herb used for seasoning pickles, sauces, soups, etc. It is so easily grown that every garden should have a short row of this valuable herb.

Pkt., 10c; oz., 20c; ¼ lb., 50c.

KOHL RABI

A vegetable intermediate between a cabbage and a turnip which combines the flavor of both. It forms a turnip-shaped bulb above ground which is boiled and served like turnips. If used when young, is tender and a very desirable vegetable.

Culture. For early use sow in hotbeds and transplant. Out-of-doors sow in open ground the first part of April in rows 18 inches apart; thin out or transplant to 6 inches apart in the row. Cultivate same as cabbage. It can also be sown the latter part of June or in July for fall use. One ounce will sow 300 feet of drill.

168 **EARLY PURPLE VIENNA.** Very early with small tops, bulbs good size. A variety of good quality.

Pkt., 10c; oz., 50c; ¼ lb., \$1.50.

169 **EARLY WHITE VIENNA.** An excellent sort for general use, has white tender flesh of pleasant flavor.

Pkt., 10c; oz., 50c; ¼ lb., \$1.50.

White Varieties of Sweet Corn—cont.

118 **COUNTRY GENTLEMAN.** Probably the most popular of all sorts for home gardens on account of its sweetness, tenderness and delicious flavor. Ears 7 to 8 inches long, round, medium size. Grains zig-zag or staggered, small in size but set close on the cob and very deep.

Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 2 lbs., 55c; 5 lbs., \$1.25.

119 **STOWELL'S EVERGREEN.** One of the standard main crop sorts which has long been popular with commercial growers and canners, and is one of the best for home gardens. It is hardy, thrifty, productive, very tender and sugary, and remains in edible condition longer than most other sorts. Ears 8 to 9 inches long, having 16 to 18 rows of very deep grain. Stalks sturdy and erect.

Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 2 lbs., 55c; 5 lbs., \$1.25.

120 **ZIG-ZAG EVERGREEN.** A development of the Stowell's Evergreen which has become very popular. The rows instead of being straight are irregular; the grains set very close on the cob. Ears are 8 inches long, large grains, very deep,

sugary, tender and of fine flavor. This is becoming a very popular sort and in many sections is superseding the well-known Stowell's Evergreen.

Pkt., 10c; ½ lb., 20c; 1 lb., 35c; 2 lbs., 65c; 5 lbs., \$1.35.

122 **CLUB ZIG-ZAG EVERGREEN.** A late variety of Zig-Zag Evergreen Corn, the ears are generally twice the size in diameter of any other sort and of a fine, sweet flavor.

Pkt., 10c; ½ lb., 20c; 1 lb., 35c; 2 lbs., 65c; 5 lbs., \$1.35.

123 **BLACK MEXICAN.** For home use we consider this one of the best second early sorts where tenderness and sweetness are the qualities most desired. The stalks grow about 6½ feet high, producing ears usually 8 inches long and 8-rowed. The dry grain is dark bluish black. The ripe Corn on the cob is also bluish black, but if used young, this Corn cooks remarkably white. This is an interesting variety.

Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 2 lbs., 55c; 5 lbs., \$1.25.

Early Dent Garden Corn

These are not Sugar Corns but valuable for their hardiness as they can be planted earlier and will mature quicker than Sugar Corns—hence, usually very profitable for market gardeners.

126 **EXTRA EARLY ADAMS.** The earliest variety and extensively used for first early table corn in the South. Stalks about 4 feet high with few leaves and without suckers. Ears short, very full, 12 to 14 rows, kernels white and smooth; an extremely hardy sort; can be planted close together and is usually popular.

Pkt., 10c; ½ lb., 15c; 1 lb., 25c; 2 lbs., 45c; 5 lbs., 95c.

127 **EARLY ADAMS.** A little larger and later sort of about the same characteristics as Extra Early Adams. Stalks about 6 feet high, ears 12 to 14 rows and a good variety for second or very late planting.

Pkt., 10c; ½ lb., 15c; 1 lb., 25c; 2 lbs., 45c; 5 lbs., 95c.

128 **TRUCKER'S FAVORITE.** A late variety of the Adams type; ears 9 to 10 inches long, 14- to 16-rowed. Has dual value in producing good crop of feed corn if roasting ear market is unfavorable.

Pkt., 10c; ½ lb., 15c; 1 lb., 25c; 2 lbs., 45c; 5 lbs., 95c.

POP CORN

A very profitable crop in many sections and grown in enormous quantities. It is popularly "the boys' crop" and all gardens should have a small quantity.

129 **WHITE RICE.** ½ lb., 15c; 1 lb., 25c; 2 lbs., 45c; 5 lbs., 95c.

130 **WHITE PEARL.** ½ lb., 15c; 1 lb., 25c; 2 lbs., 45c; 5 lbs., 95c.

131 **SOUTH AMERICAN LARGE YELLOW.** ½ lb., 15c; 1 lb., 25c; 2 lbs., 45c; 5 lbs., 95c.

CORN SALAD

An excellent salad for winter and spring. The seed is sown in August or September, in drills 1 foot apart. Press on the soil to make it firm and it will germinate better. As freezing weather approaches, cover with straw or coarse litter. Seed can also be sown very early in the spring if on rich soil.

132 **LARGE SEEDED.** Round leaved, the best variety.

Pkt., 15c; oz., 60c; ¼ lb., \$1.75.

SEED CORN TREATMENT REDUCES DISEASE DAMAGE. Seed disinfection with Improved Semesan, Jr., will help greatly to prevent damage by diseases to the roots, stalks and the ears of field corn and sweet corn. It protects seed against rotting, permits earlier planting, increases germination, controls blight and increases crop yields.

EGGPLANT

A well known popular vegetable which produces large purple fruits. It is served mostly dried. Seed germinates slowly and should be started in hotbed.

One ounce produces 1000 plants; four ounces will produce enough to set one acre. Ready for table in 120 days from sowing.

Culture.—Sow in February or March in warm hotbeds. When plants have two rough leaves, transplant to 3 or 4 inches apart or into small pots; after all danger of frost is past, about the middle or end of May, transplant to the garden, setting plants about three feet apart each way. Shade young plants from hot sun.

148 **BLACK BEAUTY.** Ten days to two weeks earlier than New York Improved. Fruits slightly longer and darker than this variety, being rich dark purple, large and symmetrical. It is very desirable for market as it holds its color a long time. It is entirely free from spines; splendid for early crop or very late planting.

Pkt., 10c; ½ oz., 30c; 1 oz., 75c; ¼ lb., \$2.00.

149 **NEW YORK IMPROVED.** This has long been a general favorite both for market gardeners and home use. It is the largest variety in cultivation and one of the best. The plant is robust, usually producing 4 to 6 large, oval fruits of splendid dark purple.

Pkt., 10c; ½ oz., 30c; 1 oz., 75c; ¼ lb., \$2.00.

Plants.—Ready in May. We do not send these plants by mail.



New York Improved Purple Eggplant

For Pickling

CUCUMBERS

For Slicing

One ounce plants 50 hills; two pounds to one acre. Plant in April or May for early crop. Ready for the table 50 to 75 days from planting.

Culture. Rich soil or one containing plenty of well-rotted manure is best; hence hills are usually made about 4 feet apart using manure or sheep manure well mixed with the soil. For earliest crop outdoors, plant 8 to 10 seeds in hills or drills 4 feet apart. After danger of frost and destruction by insects, thin the plants to about four to the hill. For late crop plant from the end of May until July. Cultivate occasionally, keeping the grass and weeds out, and when the fruit is ready for use, pick whether wanted or not, as it will extend the life and productiveness of the vines.

133 A. & C. CUCUMBER. This beautiful Cucumber is very popular wherever grown, because of the large yield of fine fruits. About 10 inches in length, well rounded at ends and very dark green.

Pkt., 10c; oz., 15c; ¼ lb., 50c; 1 lb., \$1.50.

134 STRAIGHT EIGHT. 1935 All-America Gold Medal Award. One of the finest new Cucumbers which has been offered in many years. As its name indicates, it grows very straight; a long, slender fruit with a slight taper at each end. At the edible stage, the length averages about 8 inches and the color is a rich dark green. This is a very attractive Cucumber and the fine quality makes it an excellent sort for slicing.

Pkt., 10c; oz., 25c; ¼ lb., 75c; 1 lb., \$1.95.

135 LONGFELLOW. The Longfellow is a White Spine type, developed so that it would have the slender, dark green appearance of a hothouse Cucumber but which could still be grown outdoors. Vines are vigorous and productive. Fruits 12 to 14 inches long and 2½ inches in diameter. Can be grown in the garden or greenhouse; stands shipping well.

Pkt., 10c; oz., 25c; ¼ lb., 75c; 1 lb., \$2.00.

136 IMPROVED EARLY WHITE SPINE. One of the best sorts for table use and probably the most popular sort grown by market gardeners and truckers. The vines are vigorous, producing fruit early and abundantly. Fruits are uniformly straight, about 8 inches long, vivid green coloring changing to and streaked a whitish green at the tip.

Pkt., 10c; oz., 15c; ¼ lb., 40c; 1 lb., \$1.25.

137 IMPROVED LONG GREEN. One of the most popular sorts for home gardens and in country districts for home markets. Fruits are very long, often 12 inches, slender and uniformly dark green color. It is rather late maturing. The vines are very vigorous and fairly productive. The matured fruits are excellent and tender for table use and both large and small can be used for pickling.

Pkt., 10c; oz., 15c; ¼ lb., 50c; 1 lb., \$1.50.

138 DAVIS PERFECT. A development by crossing the Improved Long Green with an English frame variety. It is dark, rich green color, slightly tipped with white at the end; has very few seeds and is excellent for slicing. Fruits are often 12 inches long, very slim and showy. Particularly fine for home gardens.

Pkt., 10c; oz., 15c; ¼ lb., 40c; 1 lb., \$1.25.

139 EARLY FRAME. A well known, short, green variety, producing abundantly, uniformly straight, moderate sized fruit. Fine for very early planting or for pickling, more prolific than the large fruited sorts.

Pkt., 10c; oz., 15c; ¼ lb., 40c; 1 lb., \$1.25.

140 EARLY FORTUNE. The finest type of White Spine yet introduced. Early and very productive; fruits grow 9 inches long, slightly tapering, flesh white, firm and crisp with very few seeds; color dark green. Quality is excellent either when sliced, or for making pickles.

Pkt., 10c; oz., 15c; ¼ lb., 40c; 1 lb., \$1.25.

ENDIVE

One of the best salads for fall and winter use, and sometimes used for greens, flavoring soups and stews. It may be grown at any season but is more generally planted for fall.

Culture. For early use, sow about April 15th; for later use, sow in June or July, in drills 18 inches apart, and when large enough thin out to about one foot apart. When nearly grown, tie the outer leaves together over the center in order to blanch the heart. By covering fresh plants every few days a succession may be kept up. One ounce to 100 ft. of row.

150 GREEN CURLED. One of the hardiest and best varieties for general use. It has deep green leaves, beautifully cut and curled and is easily blanched; is very crisp, tender and of fine flavor.

Pkt., 10c; oz., 15c; ¼ lb., 45c.

151 BROAD LEAF BATAVIAN (Escarolle). A variety having broad, more or less twisted, waved, bright green leaves with thick white midribs. It is much larger in growth than other sorts and has a flavor all its own. The inner leaves form a very solid, clustering head; are blanched a beautiful deep, creamy white; crisp, tender and of fine flavor. Very highly esteemed by the French and popular wherever used.

Pkt., 10c; oz., 15c; ¼ lb., 45c.

152 MOSS CURLED. A compact growing variety forming large dense clusters, finely divided, medium green leaves. When properly blanched is rich creamy white and tender. An ornamental variety for salads.

Pkt., 10c; oz., 15c; ¼ lb., 45c.

153 WHITE CURLED. Plants 12 to 13 inches in diameter; leaves finely curled, with broad ribs slightly rose tinged. Creamy white at the heart. Handsome in appearance and of fine flavor; excellent for salads.

Pkt., 10c; oz., 15c; ¼ lb., 45c.

LEEK

Leek is a kind of onion that does not form any bulb, but grows in a long stem, which is blanched by drawing earth around it. When blanched it makes an appetizing salad, or is eaten like green onions. Boiled they are more delicate in flavor than the mildest onions. Seed is sown in the spring and the leek is ready to use in the fall. If given a little protection with dirt, it will last over winter and give a welcome addition to the early spring menu.

170 LARGE FLAG. The most extensively used of the strong growing types. It is broad-leaved, with rather short but very thick stems, and uniform, and of fine quality.

Pkt., 20c; oz., \$1.00; ¼ lb., \$3.00.



National Pickling Cucumber

141 CHICAGO PICKLING. A very prolific variety good both for pickling and slicing. The young fruit is short, straight, square ended and medium deep green in color.

Pkt., 10c; oz., 15c; ¼ lb., 40c; 1 lb., \$1.25.

142 JERSEY PICKLING. A variety shorter than Long Green, slender and produces very abundantly. Vines are vigorous and productive. A very popular main crop sort for market and commercial uses.

Pkt., 10c; oz., 15c; ¼ lb., 40c; 1 lb., \$1.25.

143 NATIONAL PICKLING. Due to its remarkable solidity and heavy yields, this is today one of the favorite pickling sorts. It is just as firm after pickling as before. Is early, dark rich green color, straight and symmetrical, and can be used when very small.

Pkt., 10c; oz., 15c; ¼ lb., 40c; 1 lb., \$1.25.

144 NICHOLS' MEDIUM GREEN. A variety intermediate in length between the White Spine and Long Green, producing straight, medium sized cylindrical fruits of dark green color, which are most excellent for slicing and extremely popular for pickling. Vines vigorous, productive. A very profitable variety for canners and commercial growers for late crop.

Pkt., 10c; oz., 15c; ¼ lb., 40c; 1 lb., \$1.25.

145 EARLY GREEN CLUSTER. Short and prickly; bearing in clusters; prolific; fine for bottling.

Pkt., 10c; oz., 15c; ¼ lb., 40c; 1 lb., \$1.25.

146 WHITE WONDER. Fruit, produced in clusters, is symmetrical, short, blocky, and rounded at both ends; color ivory-white from time of forming until maturity; moderately productive.

Pkt., 10c; oz., 15c; ¼ lb., 50c; 1 lb., \$1.50.

KALE or Borecole

A popular crop for fall, winter and spring use as "greens." In addition to its table use it is a splendid soil improver and very nutritious as a grazing crop for cattle, hogs or sheep.

Culture. In this section it is usually sown broadcast from the middle of August to the middle of October at the rate of 3 to 4 pounds to the acre. Scotch Kale is sown earlier and when very early is usually sown in drills. In the spring, seed can be sown in February, March and April. Spring sown Kale requires 5 to 6 pounds to the acre and Smooth Kale should have 6 to 8 pounds to the acre.

164 BLOOMSDALE. Dark blue-green and very curly. One of the most handsome varieties. On account of the short stems, the leaves rest practically on the ground. The leaves are wide-spread and plume-like very dense, dark blue-green, and retain their color after cutting.

Pkt., 10c; oz., 30c; ¼ lb., 85c; 1 lb., \$2.50.

165 DWARF SIBERIAN. A vigorous growing sort of spreading habit, its green foliage having a distinctive bluish tinge or bloom. Very hardy and a favorite in many sections for greens and extensively grown for forage.

Pkt., 10c; oz., 15c; ¼ lb., 50c; 1 lb., \$1.50.

166 DWARF GREEN CURLED SCOTCH. A finely curled, spreading, low-growing variety, which is very popular in many trucking centers, especially in the East. The leaves are attractive, bright green color and beautifully curled, which makes it excellent for garnishing. It must be sown earlier than other sorts; usually from July until end of August, or can be sown in March. Can be sown either in drills or broadcast.

Pkt., 10c; oz., 25c; ¼ lb., 75c; 1 lb., \$2.25.

167 TALL GREEN CURLED SCOTCH. Leaves green, beautifully curled and wrinkled—grows about 2 feet in height; hardy, being improved by frost.

Pkt., 10c; oz., 25c; ¼ lb., 75c; 1 lb., \$2.25.

GARLIC

Used for flavoring. The bulbs are divided into "cloves" or flakes and set out like onion sets about 4 inches apart in the row, and covered 2 inches deep. When the tops die down, take up the bulbs and dry in a shady place. Bulbs only. ½ lb., 25c; 1 lb., 40c.

LETTUCE

The smallest of home gardens can easily grow plenty of Lettuce. By making successive sowings and using the Lettuce as it is thinned, a supply can be had throughout the season.

Lettuce seed germinates quickly and may be planted as soon as the ground can be prepared in the early spring. Sow seed in rows 15 to 18 inches apart, covering not more than one-half inch deep.

To grow good head Lettuce, requires rich soil, plenty of moisture, and steady growth from the time the seeds are planted until the heads are ready to use. A check in growth from lack of nourishment or moisture usually means no head. The most satisfactory results come from growing Lettuce in cool weather. The plants should be thinned to 10 inches apart in the row and thorough cultivation given to keep down the weeds and conserve moisture.

One ounce sows about 250 feet of row; 3 pounds for 1 acre.

Curled or Loose-Leaved Varieties

172 BLACK-SEEDED SIMPSON. The best sort for nearby markets and for home gardens on account of its superior quality. It forms a large, loose head, very bright green, nearly white and is exceedingly tender. Is largely used for forcing under glass and is a superior sort for earlier crop. Pkt., 10c; oz., 15c; $\frac{1}{4}$ lb., 40c.

173 GRAND RAPIDS. Special forcing strain. The most popular variety for greenhouse forcing, especially for shipping. It is of quick growth, hardy and not liable to rot; remains in good condition several days after being fit to cut. Plants are upright and uniform; leaves finely crumpled at the edges. It is the heaviest loose-headed sort, will stand shipping better and is a very attractive variety. Pkt., 10c; oz., 15c; $\frac{1}{4}$ lb., 40c.

174 EARLY CURLED SIMPSON (White-Seeded). Makes a large, loose curled head similar to Black-Seeded Simpson. Particularly adapted for sowing thickly and cutting when the plants are young. Leaves light green, slightly frilled, much blistered, crisp, sweet and tender. Pkt., 10c; oz., 15c; $\frac{1}{4}$ lb., 40c.

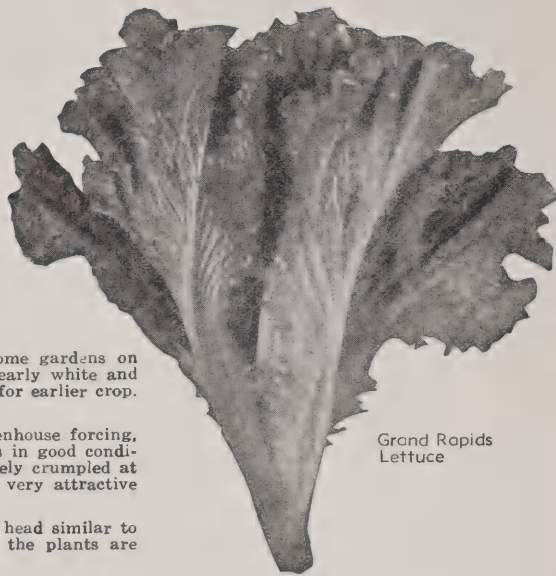


Trianon Cos Lettuce

Cos or Romaine Lettuce

This type of Lettuce forms upright loose folding heads, and the inner leaves bleach white. Heads readily in almost any climate.

184 TRIANON COS. Makes a well-folded, cylindrical, medium green head. Interior pale greenish white. Smooth, crisp leaves. A distinct flavor all its own. Pkt., 10c; oz., 15c; $\frac{1}{4}$ lb., 50c.



Grand Rapids Lettuce

175 EARLY CURLED SILESIA. An old and very popular variety which is probably the earliest and quickest sort grown. Plants loose, not quite so large as Black-Seeded Simpson. Popular for outside. Pkt., 10c; oz., 15c; $\frac{1}{4}$ lb., 40c.

176 EARLY PRIZE HEAD. A large clustering, non-heading sort, most excellent for home gardens as it is very early. Leaves broad, crumpled, and frilled; outside leaves tinged red, inner leaves entirely green; very crisp, sweet and tender. Pkt., 10c; oz., 15c; $\frac{1}{4}$ lb., 40c.

Cabbage or Heading Varieties

178 ICEBERG. A beautiful Lettuce, with large, curly leaves of bright, light green, with a very slight reddish tint at the edges. Handsome heads, unusually solid because of the natural tendency of the large, strong leaves to turn in which also causes thorough blanching. Crisp, tender and fine flavor. Pkt., 10c; oz., 15c; $\frac{1}{4}$ lb., 45c.

180 BIG BOSTON. This has long been a favorite sort with market gardeners and truck growers and in some sections is planted almost exclusively. It forms a large, compact head, forces well in frames and is thoroughly satisfactory for outdoor crops in the spring or very late head crops in the fall. Leaves are broad, comparatively smooth, color bright, light green. The heads are slightly tinged with reddish brown. Pkt., 10c; oz., 15c; $\frac{1}{4}$ lb., 45c.

181 IMPROVED HANSON. A splendid summer heading sort and probably the most popular of its class in this section. The plants are compact, forming a large cabbage-like head which remains in good condition a long time. The outer leaves are yellowish green, somewhat crumpled with a large, distinctive mid-rib, the inner leaves white, sweet and tender. This variety is a little coarse in quality, but on account of its large size and general reliable summer heading qualities, is profitable and desirable for summer use. Pkt., 10c; oz., 15c; $\frac{1}{4}$ lb., 45c.

182 NEW YORK or WONDERFUL. This variety is raised in California and shipped to Eastern markets as "Iceberg." Crisp, tender and free from bitterness. It produces immense heads, often 15 to 16 inches across and weighing enormously. The interior is beautifully blanched, creamy white, crisp, tender and delicious. It is a very large, robust growing variety, rooting deeply, resisting hot dry weather, very slow to run to seed and a sure header under most trying conditions. Pkt., 10c; oz., 20c; $\frac{1}{4}$ lb., 60c.

183 BIBB LETTUCE. A waxy head variety with very deep green outer leaves, bleaching to a rich yellowish green inside. Heads medium size, unusually crisp and tender, and of a distinct flavor. Very popular for family gardens, high class hotel and restaurant trade. Pkt., 15c; oz., 35c; $\frac{1}{4}$ lb., \$1.00.

MUSTARD

Mustard greens are as healthful and nourishing as spinach. The leaves of Mustard are more tender, and the stems are not so long and coarse. The plants are in condition for use as soon as the leaves are the size of one's hand.

Culture. Sow broadcast or in drills 12 inches apart in March or April, or in the fall in September or October. Cut when 3 inches high. One ounce sows about 80 feet of drill. An acre requires 4 to 6 pounds.

220 FORDHOOK FANCY or OSTRICH PLUME. This beautiful curled Mustard is very handsome in appearance and of very mild, pleasant flavor. The leaves are curled and fringed, and the plant remains longer without running to seed than other kinds. Pkt., 10c; oz., 15c; $\frac{1}{4}$ lb., 35c.

221 MUSTARD SPINACH or TENDERGREEN. A desirable, quick-growing, tender variety with long, broad, fairly smooth leaves of dark green; white mid-ribs; slow to seed. Pkt., 10c; oz., 15c; $\frac{1}{4}$ lb., 35c.

222 SOUTHERN GIANT CURLED. A large growing sort with succulent, pungent leaves of sweet flavor. The best variety for greenhouses. Pkt., 10c; oz., 15c; $\frac{1}{4}$ lb., 35c.

223 WHITE or YELLOW LONDON. Used for greens and the seed largely used for pickles and flavoring. Pkt., 10c; oz., 15c; $\frac{1}{4}$ lb., 35c.

It is only in the home garden, where there is no loss of time from garden to table.

You, too, can have garden-fresh vegetables, with unexcelled table quality.

GROW WHAT YOU EAT.



Southern Giant Curled Mustard

MUSKMELON or CANTALOUPE

1 ounce plants 50 hills; 2 lbs. to 1 acre. Plant in May for early crop; in June for late crop.

It's Not Hard to Raise Melons It is much easier to raise Melons than is usually supposed and they are so delicious a fruit that everyone who has any garden at all should raise some. All that is required is a good rich, well manured soil, that is not too heavy, and a warm, sunny situation.

Culture. Seed is planted in hills 6 feet apart, putting 10 to 12 seeds to the hill and covering 1 inch deep. If land is not rich, use well-rotted manure or a little sheep manure mixed with the soil. When danger of insects is over, thin out to 4 plants to the hill.

Green Fleshed Varieties

187 ROCKY FORD or NETTED GEM. The flesh is green, thick, with small cavity, very sweet and has that spicy flavor that makes a Cantaloupe so delicious. The melons are oval-shaped, slightly ribbed, well covered with fine netting and are uniform in size and shape.
Pkt., 10c; oz., 15c; ¼ lb., 40c.

189 EXTRA EARLY HACKENSACK. Two weeks earlier than the Large Hackensack and produces medium sized fruit, somewhat flattened, evenly deep ribs with coarse netting. The flesh is green, slightly tinged with yellow, juicy and sweet.
Pkt., 10c; oz., 15c; ¼ lb., 40c.

190 LARGE HACKENSACK (or Turk's Cap). An old and well known sort which produces very large, green-fleshed fruits which are nearly round and flattened. Flesh green, thick, juicy, and sweet.
Pkt., 10c; oz., 15c; ¼ lb., 40c.

191 HONEY DEW. Its name has been well chosen, as it is about as sweet as honey. The average size is about 6 inches in diameter, and it weighs 5 to 6 pounds. The skin is smooth with a little netting and of creamy yellow when ripe. The flesh is beautiful green next to the outside rind shading to light green at center. It is very thick, fine grained, and can be eaten almost to the rind and the seed cavity is quite small. Pkt., 10c; oz., 15c; ¼ lb., 40c.

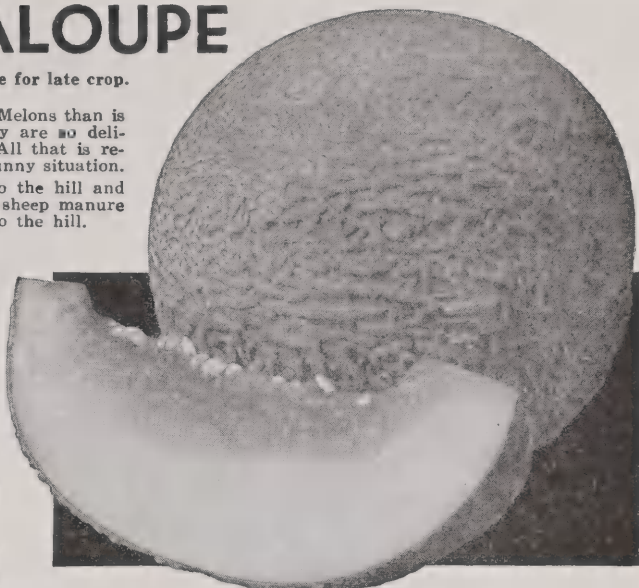
Orange Fleshed Varieties

193 PRIDE OF WISCONSIN. We believe Pride of Wisconsin to be the last word in a quality Melon—the deep colored sparkling orange flesh is totally unlike other cantaloupes. Rind is strong and hard, with heavy coarse netting. The seed cavity is triangular shape. This Melon is just the right size.
Pkt., 10c; oz., 25c; ¼ lb., 75c.

194 BENDER'S SURPRISE. Exquisitely fine flavor, large size and earliness combine to make this new melon a great favorite. The melons are of oval shape; flesh deep orange, very thick, deliciously sweet and of high flavor. Grows fairly large, weighing up to 10 pounds each. The melons are very firm, keep for a week after being picked.
Pkt., 10c; oz., 15c; ¼ lb., 40c.

195 GOLDEN CHAMPLAIN or LAKE CHAMPLAIN. Earliest of the orange-fleshed melons; 75 to 80 days. Nearly round, slightly flattened at ends, 5 to 6 inches in diameter. Usually slightly ribbed and covered with an open, moderately coarse netting. The flesh is fairly thick, orange-salmon in color, juicy and very sweet. When fully ripe, the fruits show a golden color through the netting. A very good early market and home garden variety.
Pkt., 10c; oz., 15c; ¼ lb., 40c.

196 HALE'S BEST. Since its introduction, this variety has displaced some of the older popular favorites by its outstanding merit. An early melon, ripening in 75 to 80 days. The nearly round fruits are normally 6 to 6½ inches long, densely covered with a medium heavy netting and almost devoid of ribbing. The flesh is very thick and fine grained, deep salmon-pink in color, richly flavored.
Pkt., 10c; oz., 15c; ¼ lb., 40c.



The Famous Pride of Wisconsin

197 HEARTS OF GOLD or IMPROVED HOO-DOO. A new orange-fleshed variety, ideal as a shipping melon and of the very finest quality. Fruits uniformly of medium size. Rind thin yet very firm. Flesh very thick, firm, of fine texture and delicious flavor.
Pkt., 10c; oz., 15c; ¼ lb., 40c.

198 HONEY ROCK or SUGAR ROCK. The best recent introduction; originating in Indiana. Its extreme earliness is not the least of its valuable qualities. It is of medium size with a slate-gray rind and coarse, rope-like netting. It has a thick, pink flesh and a small seed cavity. The flavor is excellent.
Pkt., 10c; oz., 15c; ¼ lb., 40c.

199 OSAGE or MILLER'S CREAM. A medium salmon-fleshed melon of excellent quality. Fruits are oval, dark green, slightly ribbed, tinged with grey. Flesh salmon color, thick, and highly flavored. A splendid sort for late or main crop, especially for the market.
Pkt., 10c; oz., 15c; ¼ lb., 40c.

200 TIP TOP. A popular sort with market gardeners, producing very large sized melons, ribbed but almost smooth skin. Flesh salmon, very deep, a little coarse but exceedingly sweet and delicious. Especially desirable for very rich soil and one of the most profitable for market.
Pkt., 10c; oz., 15c; ¼ lb., 40c.

201 BANANA. A long, smooth-skinned variety, growing somewhat in the shape of a long squash. Fruit about 12 inches long, salmon flesh, which is very sweet, luscious and tender. Much esteemed in some localities.
Pkt., 10c; oz., 15c; ¼ lb., 40c.



Melons Are Not Hard to Raise

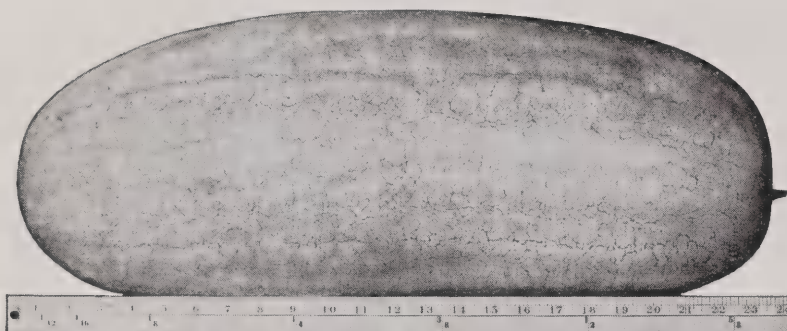
SEE GOURD SHOW ANNOUNCEMENT ON PAGE 52

You No Longer Need Envy the
Owner of a Beautiful Lawn

**SOW ACME SUPERFINE
LAWN SEED**

98½% Pure

(See inside front cover)



Hawkesbury or Grey Shipper

WATERMELONS

Watermelons do best on old, rich soil, which is not too freshly manured, hence when making the hills, well-rotted manure should be used, and it is better to prepare them some time ahead before planting the seed. If manure cannot be obtained, use good commercial fertilizer or sheep manure mixed with the soil.

One ounce plants 20 hills; 4 pounds per acre. Plant early in May or for late use, in June.

Culture. Treat as for muskmelons, but give more room, 10 to 12 feet apart each way.

202 HAWKESBURY or GREY SHIPPER. This excellent quality Watermelon belongs in the class of the light colored Melons. Thrives on soil that is highly infested with the wilt disease. Light grey color with a fine green veining. The rind is reasonably thick and tough for shipping purposes. The flesh is dark pink, of fine texture and the seeds are

brownish black.

Pkt., 10c; oz., 15c; ¼ lb., 50c; 1 lb., \$1.50.

210 FORDHOOK EARLY. The fruit of good size, rather short and blocky in form, with large diameter. Skin dark green, occasionally with faint stripes of lighter green. Rind quite thin, but skin tough, making an excellent shipping variety. Flesh bright red, crisp, sweet, and of splendid quality. Pkt., 10c; oz., 15c; ¼ lb., 40c; 1 lb., \$1.25.

211 SWEETHEART. A very popular shipping sort, particularly in the South. Fruits are very large, oval, very heavy with thin rind which is of light green color, slightly veined with darker shade. Flesh bright red, firm, very sweet, and the fruits remain in condition a long time after ripening. A splendid sort for market or main crop, being of fine appearance and sells readily.

Pkt., 10c; oz., 15c; ¼ lb., 40c; 1 lb., \$1.25.

212 DIXIE QUEEN. A leader for home gardens, local markets, and for shipping. Fruits nearly round with light and dark green stripes; thin, tough rind; flesh deep scarlet, crisp and sweet. Medium to large size, and very uniform. The few seeds are white.

Pkt., 10c; oz., 15c; ¼ lb., 50c; 1 lb., \$1.50.

213 PEERLESS or ICE CREAM. A splendid early sort for home or market gardens. Vines moderately vigorous, hardy, and very productive. Fruits are oblong, medium size, bright green, finely veined with darker shade. Flesh bright scarlet, crisp and very sweet.

Pkt., 10c; oz., 15c; ¼ lb., 40c; 1 lb., \$1.25.

214 GEORGIA RATTLESNAKE. Also called Gypsy. One of the most popular of the older sorts, especially in the South. Fruits are large, very long, of light green color, distinctly striped and blotched with darker shade. In the South it is very highly esteemed and especially desirable for growing and shipping. The rind is remarkably thin though very tough; hence, it stands shipping well. Flesh most tender, sweet and luscious. Fruits are uniformly good quality.

Pkt., 10c; oz., 15c; ¼ lb., 40c; 1 lb., \$1.25.

215 HALBERT'S HONEY. A long, dark green melon of moderate size but such splendid quality that it is especially desirable for market or home use. The rind is very thin. Flesh bright crimson and so crisp and tender that ripe melons will split ahead of the knife in cutting. We especially recommend this for general planting as it is very productive, of excellent quality and a splendid seller.

Pkt., 10c; oz., 15c; ¼ lb., 40c; 1 lb., \$1.25.

203 EARLY KANSAS. The largest of all early melons. It combines sweet flavor and bright red flesh, solid to the rind, which is not thick. Nearly round, light green with broad bands of wavy stripes. Every Melon a good one; no white or stringy hearts, and a wonderful shipper. Pkt., 10c; oz., 15c; ¼ lb., 40c; 1 lb., \$1.25.

204 IMPROVED KLECKLEY'S SWEET NO. 6. A Wilt-Resistant Watermelon. This new strain marks a distinct advancement toward the development of the popular Watermelons where soil disease is serious. An improved Kleckley's Sweet type which has proven almost fully resistant to fusarium wilt. It is dark green, of good length, with deep red flesh and white seeds.

Pkt., 10c; oz., 15c; ¼ lb., 50c; 1 lb., \$1.50.

205 COLE'S EARLY. A sure cropper for northern states. Its dark red flesh is delicate in texture; rind green, striped with lighter shades, thin and brittle; of medium size, and nearly round. Matures early, especially good for home use.

Pkt., 10c; oz., 15c; ¼ lb., 40c; 1 lb., \$1.25.

206 STONE MOUNTAIN. A melon of finest quality and claimed to be the sweetest of all of the large melons. It is almost round and has a dark green, medium thick rind. Flesh rich scarlet. It is not unusual to grow Stone Mountain weighing 70 to 80 pounds. For home use and nearby markets it is unexcelled.

Pkt., 10c; oz., 15c; ¼ lb., 40c; 1 lb., \$1.25.

207 TOM WATSON. A long, dark green melon, which has become exceedingly popular on account of its large size and general fine qualities. Vines are vigorous and productive. Flesh rich bright red, very juicy and sweet. Most suitable for nearby markets, family gardens, and a favorite with truckers, as it stands shipping well and retains its color and good quality a long time.

Pkt., 10c; oz., 15c; ¼ lb., 40c; 1 lb., \$1.25.

208 KLECKLEY'S SWEET, or MONTE CRISTO. One of the best flavored melons in cultivation and one of the best for home use or nearby markets. It is long, very dark green with thin rind. Flesh deep red, of fine, delicious flavor.

Pkt., 10c; oz., 15c; ¼ lb., 40c; 1 lb., \$1.25.

209 FLORIDA FAVORITE. A well-known popular sort which has long been a favorite for home use and market. Ripens early, has dark green rind, striped with light green. Flesh light crimson, exceedingly sugary, fine and tender. Very delicious, highly recommended for home market or family use. Pkt., 10c; oz., 15c; ¼ lb., 40c; 1 lb., \$1.25.

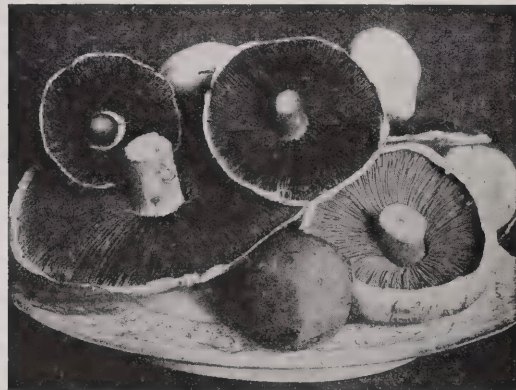
MUSHROOM SPAWN

Mushrooms can be grown in cellars, sheds, under benches in greenhouses, or in hot-beds. They are also planted outside in pasture or sod. It is a very profitable crop both for forcing or a field crop. Our cultural instructions are somewhat limited but we can furnish a booklet of more extended information on "Success with Mushrooms." Price, 25c.

One brick will spawn about 10 feet square.

Culture. In preparing a Mushroom bed, take three parts of fresh stable manure, free from straw, and one part of good pasture soil. Mix thoroughly together and let it stand until the heat has sunk to about 90 degrees. Make the bed from this mixture about 4 feet wide, 8 inches deep and any desired length. As soon as the temperature of the bed is about 70 or 80 degrees, the Spawn may be inserted in pieces about the size of a walnut, and 6 inches apart each way. When the Spawn is diffused through the whole bed, which will be in about 10 days from planting, cover with 2 inches of fine loam and press down firmly. Over this place a layer of straw about 4 inches thick. Do not water unless the surface gets extremely dry, and then only with water at a temperature of 80 degrees. When gathering the crop, twist them off at the roots and do not use a knife. Cover the hole with soil to keep insects away from the root.

ENGLISH MUSHROOM SPAWN. Well known and popular. Put up in bricks weighing about 1½ pounds. Per brick, 50c; 3 bricks, \$1.25, postpaid.



Mushrooms From English Mushroom Spawn

PLANT A SUCCESSION GARDEN

An astonishing amount of vegetables can be grown on a small plot of ground by planting succession crops and by intercropping. Such vegetables as Radish, Leaf Lettuce, Green Onions and Spinach can be planted between Beans, Peas, Tomatoes, and Corn, which require much wider rows. Make several plantings of Beans and Peas to have a fresh table supply all season. Any surplus may be canned for winter use. Follow the early crops with vegetables for fall and winter use such as Spinach, Kohl Rabi, Turnips, Kale, etc. Have fresh, healthful vegetables on your table throughout the entire growing season.

OKRA or GUMBO

Okra pods are used in soups, stews, catsup and other relishes. They are at their best when 1 to 3 inches long. Rapidly becoming a most popular vegetable.

Culture. Sow in drills $2\frac{1}{2}$ feet apart after the weather has become settled and warm. Thin out to 18 inches apart in rows. To keep for winter, slice the pods when young in narrow rings and string or hang in the shade to dry.

One ounce sows about 50 feet. Ten pounds per acre. Plant in April or May. Matures in 60 to 70 days from planting.

224 WHITE VELVET. An early maturing and very productive variety growing about $3\frac{1}{2}$ feet high. Pods white, long, smooth, and very tender. This is not so deeply ribbed as the green sorts and is very popular in some sections. Pkt., 10c; oz., 15c; $\frac{1}{4}$ lb., 35c.

225 DWARF PROLIFIC. One of the most popular sorts in the South, growing 3 feet high, producing large pods, deeply ribbed, tender and of fine flavor. Pkt., 10c; oz., 15c; $\frac{1}{4}$ lb., 35c.

226 PERKINS' MAMMOTH. Plant dwarf; is very attractive. Produces long, slender, deep green pods which remain tender a long time. Pkt., 10c; oz., 15c; $\frac{1}{4}$ lb., 35c.



Perkins' Mammoth Okra

ONION SETS

There are three distinct classes of these.

Potato or Hill Onions can be planted in the fall from August to November and produce green spring Onions, large Onions, and Sets. **Perennial or Egyptian Top** Onion Sets are planted in the fall and produce green spring Onions early in the spring. **Bottom Sets** or regular Onion Sets of commerce are small Onions which were previously grown from seed. These set out early in the spring or in the South in the fall, produce one large Onion from each Set, towards the end of June or first of July. Pickling Onions (which are a larger size bottom Set) are used in some localities for fall planting to produce early green spring Onions. All Onion Sets are hardy and can be set in the open ground as early as the weather will permit. They are usually planted in rows 15 inches apart — 4 inches apart for small Sets and 6 to 8 inches apart for Potato Sets. Potato Onion Sets can also be planted in the spring. It takes about 16 bushels of bottom Onion Sets per acre, and 20 to 25 bushels of Potato Onion Sets, according to the size and distance apart.

Prices of Onion Sets are subject to market changes. Prices on application.

ONIONS

One of the most nutritious and healthful of vegetables, having excellent medicinal qualities and most useful for flavoring salads, soups, meats, etc. It can be produced easily from either Sets or Seed and is one of the most satisfactory vegetables in the garden.

Culture, Growing Large Onions from Seed. Seed is sown in rows 15 inches apart as early in the spring as ground can be worked, and covered about one-half inch deep. When 2 to 3 inches tall, the young plants can be thinned to prevent crowding. They can be thinned again when 6 or 8 inches tall, and the plants removed can be used as green Onions. After that, they can be pulled as needed, and those that are left to become fully ripe can be stored for winter. One ounce sows 125 feet of row, 6 pounds of seed per acre.

230 HE-SHI-KO. A long, white Onion for green bunching. It does not form a bulb. Produces a cluster of 4 to 6 useful shoots from a single seed in the first season and the plants can be wintered over, when weather is not too severe. The bleached portion is often 6 inches long and this variety is quite resistant to thrip. Pkt., 15c; oz., 45c; $\frac{1}{4}$ lb., \$1.35.

231 YELLOW GLOBE DANVERS. One of the most extensively grown yellow Onions. Bulbs are of large size, uniformly globe-shaped with small necks. Ripen evenly. Flesh creamy white, crisp and excellent flavor. Onions have a yellow coppery color, showy and handsome. Pkt., 15c; oz., 55c; $\frac{1}{4}$ lb., \$1.75.

232 OHIO YELLOW GLOBE. A very much esteemed and popular sort grown extensively in this state. Particularly suited to rich soils. Color rich yellow tinged with orange. Flesh creamy white, mild, and of fine flavor. One of the best for main crop planting and shipping as it is an excellent keeping sort. Pkt., 15c; oz., 55c; $\frac{1}{4}$ lb., \$1.75.

233 PRIZETAKER. The true Prizetaker is globe-shaped, has pale yellow skin and white flesh, which is very mild and of delicate flavor.

PARSLEY

Easily grown and useful for so many purposes, such as garnishing, seasoning salads and for ornamental purposes. Grown in the garden as edging it is both ornamental and profitable.

Culture. Seed is sown in rows $\frac{1}{2}$ inch deep and one foot apart. Cover firmly but not deep. As it is slow to germinate, usually taking 3 to 4 weeks, soaking in water is desirable. One ounce sows 150 feet of drill. For winter growing it can be sown or transplanted to cold frames or to hotbeds and is usually profitable.

239 MOSS CURLED. A beautifully curled and crimped variety which is much preferred. It is vigorous, compact in growth and excellent for garnishing—a handsome decorative plant. One of the most popular for market and home gardens.

Pkt., 10c; oz., 15c; $\frac{1}{4}$ lb., 45c.

240 HAMBURG or TURNIP ROOTED. This produces an edible root resembling a small parsnip both in color and shape. Flesh white, flavor similar to Celeriac. Foliage is about the same as plain Parsley. Roots are extensively used for flavoring soups and stews and can be dug late in the fall and stored in sand for winter use.

Pkt., 10c; oz., 15c; $\frac{1}{4}$ lb., 45c.

241 PLAIN. A hardy variety having very dark green leaves which are flat, deeply cut but not curled. It is a little stronger in taste and much esteemed for flavoring soups and stews, as well as for drying.

Pkt., 10c; oz., 15c; $\frac{1}{4}$ lb., 45c.

PARSNIPS

This fine vegetable should be in every home garden. Parsnips grow best in a loose, rich, sandy soil, but will make good roots in any soil that is reasonably rich and deep. Parsnips are improved by freezing, and a portion of the crop can be left in the ground and will supply a welcome addition to the winter vegetables.

Culture. Sow in April in drills 18 inches apart, covering lightly. When the plants are about 2 inches high, thin out from 4 to 6 inches apart. One ounce will sow 150 ft. drills, 5 to 6 pounds to the acre.

242 LARGE SUGAR or HOLLOW CROWN (Guernsey). One of the best and most popular varieties for the table. Roots long, uniform in shape, have a smooth, white skin, tender and of good quality.

Pkt., 10c; oz., 15c; $\frac{1}{4}$ lb., 50c.

PEANUTS

Peanuts can be successfully grown in warm, sandy soil in a sheltered place with a southern exposure. Plant in May or early June, in rows $2\frac{1}{2}$ feet apart. Drop the shelled nuts 8 to 10 inches apart, cover 1 inch deep. When the plants are nearly full grown, throw earth up to them.

IMPROVED VIRGINIA. Large and very prolific.

Per lb., 40c; 5 lbs. or more, 35c per lb.

Hollow Crown Parsnip



He-Shi-Ko Bunching Onion

ALL 10c PACKETS ARE 3 for 25c; ALL 15c PACKETS ARE 2 for 25c.
When ordering, see page 64 of this catalog.

GARDEN PEAS

Plant Enough to Can

One of the most popular crops in the home garden. One pound sows 75 feet in a row; 120 to 180 pounds per acre. The earliest sorts can be planted just as soon as the ground is in condition to work. They are not injured by light frosts. Wrinkled varieties a little later as they are tender. For fall crop sow in August.

Culture. Peas succeed best in light, rich loamy soil. The early dwarf varieties can be planted in rows 2 feet apart. The tall varieties in rows 3 feet apart. The seeds should be planted at a depth of 1½ to 2 inches. All varieties growing more than 1½ feet high do better if staked up or otherwise supported when 4 to 6 inches tall. This support is usually given by sharpened branches of trees or sticks. Tall varieties yield more abundantly than dwarf. Cultivate and keep clean, working the earth toward the vines rather than away from them.

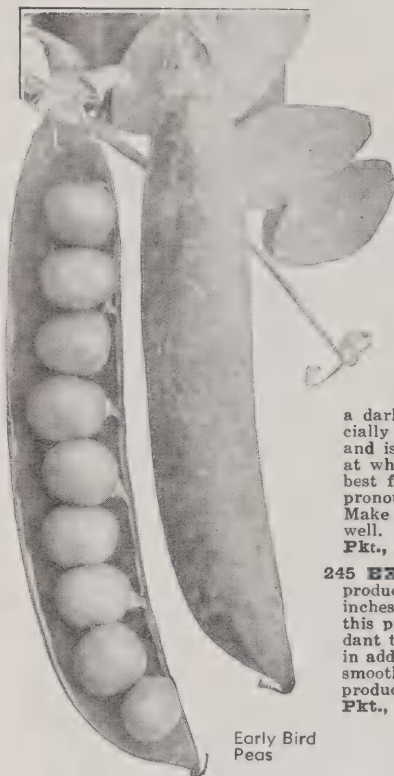
Early Varieties

244 MAUD S. The earliest and most prolific Pea known. The pod is of a dark green color, of a full, round shape and of strong texture which especially fits it for shipping long distances. For a late fall crop it has few equals and is the market gardener's favorite for all seasons. The far northern point at which our peas are grown renders them almost proof against cold and the best for early spring or late fall crop. Thousands of market gardeners have pronounced this Pea unequalled in earliness, yield and regularity of growth. Make first planting as early in the spring as the ground will permit and cover well.

Pkt., 10c; ½ lb., 15c; 1 lb., 25c; 2 lbs., 45c; 5 lbs., 95c.

245 EXTRA EARLY. One of the best strains of extra early peas; producing abundantly. Vines grow 2 to 2½ ft. high; pods 3 to 3½ inches long, well filled with fine delicious quality peas. Not only is this probably the earliest of all garden sorts but its yield is so abundant that it is the most profitable variety of all for market gardeners, in addition to being the best early sort for home gardens. Seed is white, smooth, medium size. Vines thrifty, vigorous, robust and extremely productive.

Pkt., 10c; ½ lb., 15c; 1 lb., 25c; 2 lbs., 45c; 5 lbs., 95c.



Early Bird
Peas

246 ALASKA. A favorite sort with Southern truckers, producing long, straight pods which will stand shipping, and remain green longer than white seeded sorts. The seed is blue, medium size. Vines about 2½ ft. high, fairly vigorous and usually produce good yields. Pods long, straight and of attractive appearance. This has long been a popular sort, is of fair quality and well known.

Pkt., 10c; ½ lb., 15c; 1 lb., 25c; 2 lbs., 45c; 5 lbs., 95c.

247 EARLY BIRD. The earliest large podded, dwarf sort. Vines about 18 inches high, foliage light green, producing an abundance of single and double, curved, pointed medium-dark green, attractive pods of about 4 inches in length; contain 9 to 10 peas. Peas are tender and of excellent flavor.

Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 2 lbs., 55c; 5 lbs., \$1.25.

248 GRADUS (or Prosperity). One of the very best early wrinkled large Podded Peas. The pods are fully as long as Telephone. Vine similar in appearance and does not grow so tall, being of medium height, about 3 to 3½ feet. The pods are 4 to 4½ inches long, pointed, handsome and one of the most attractive of the early wrinkled sorts. Peas very large, splendid quality and a beautiful light green color. This has become one of the most popular varieties in cultivation.

Pkt., 10c; ½ lb., 20c; 1 lb., 35c; 2 lbs., 60c; 5 lbs., \$1.25.

249 THOMAS LAXTON. A very popular gardeners variety. Height, 1 ft.; vine and foliage moderately stout, medium green; pods 3½ inches long, straight and square ended, containing 7 medium dark green peas of excellent quality. Extremely productive.

Pkt., 10c; ½ lb., 20c; 1 lb., 35c; 2 lbs., 60c; 5 lbs., \$1.25.

250 LAXTONIAN. One of the largest podded of the dwarf wrinkled Peas. Pods are about 4 inches in length, of a beautiful dark green color, similar to Gradus in shape, of splendid quality and mature a little earlier. Vines average 15 to 18 inches in height, vigorous, productive, and have dark green foliage.

Pkt., 10c; ½ lb., 20c; 1 lb., 35c; 2 lbs., 60c; 5 lbs., \$1.25.

251 LITTLE MARVEL. An extra early dwarf wrinkled sort particularly suited to home gardens. Vines average 15 to 18 inches high, vigorous, dark green foliage. Pods 3 inches long, round with blunt ends and often contain seven rich, dark green peas of high quality.

Pkt., 10c; ½ lb., 20c; 1 lb., 35c; 2 lbs., 60c; 5 lbs., \$1.25.

252 AMERICAN WONDER. A favorite dwarf, early, wrinkled Pea which is highly esteemed and splendid for family use. Vines about 9 inches to 1 ft. high, covered with well-filled pods, medium size, about 2½ inches long, containing 5 to 8 large, exceedingly sweet, tender peas.

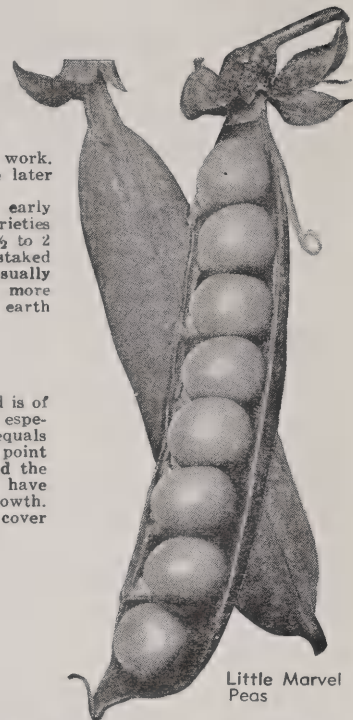
Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 2 lbs., 55c; 5 lbs., \$1.25.

253 LAXTON'S PROWESS. Produces the largest pods of any of the early dwarf varieties. Vines average about 18 inches in height. The large dark green pods are borne in abundance and are well filled with extra large tender peas of superior quality.

Pkt., 10c; ½ lb., 20c; 1 lb., 35c; 2 lbs., 60c; 5 lbs., \$1.25.

INOCULATION FOR PEAS

Excellent results will be obtained by treating the seeds of Peas with **NITRAGIN INOCULATOR** before planting. It can be easily done. We have it put up in convenient size for small gardens. (See page 53.)



Little Marvel
Peas

254 NOTT'S EXCELSIOR. A few days later than the American Wonder. Pods about one-quarter larger. It is remarkably hardy and can be planted almost as early as smooth sorts. Height, 1 to 1½ ft. One of the best for home gardens and profitable for market gardeners.

Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 2 lbs., 55c; 5 lbs., \$1.25.

255 PREMIUM GEM. This has long been a favorite among early dwarf Peas. It matures a little later than American Wonder, is somewhat taller in growth and a little more prolific. Vines vigorous and productive, growing 15 to 18 inches high; pods 2¾ inches long, crowded with peas of fine quality.

Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 2 lbs., 55c; 5 lbs., \$1.25.

Midseason Varieties

257 DWARF TELEPHONE. Similar in general characteristics to the well-known Telephone. Pods 4½ to 5 inches long, dark green; peas large, of superior quality, tender and sweet. Vines 3 ft. high.

Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 2 lbs., 55c; 5 lbs., \$1.25.

258 ALDERMAN. This is really an improved Telephone, and is by far the best variety of this type. Yields more than any other variety. The pods resemble Telephone, but are larger and better filled, while the vines are of more robust growth and more prolific. Height from 4 to 5 feet. For best results the vines should be given some support. The pods are immense, often 5 inches long and contain 8 to 10 large peas.

Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 2 lbs., 55c; 5 lbs., \$1.25.

259 IMPROVED TELEPHONE. One of the leading Peas with market gardeners on account of its vigorous, tall growth and productiveness. Vines about 4 ft. high, foliage light green, producing an abundance of pointed pods, very large and light green. Peas large, tender, very sweet, excellent flavor. A splendid sort for home gardens and profitable for market.

Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 2 lbs., 55c; 5 lbs., \$1.25.

Edible Pod Varieties

These varieties have all the sweetness and flavor of fresh green Peas. When the pods are partly filled, they are prepared like snap beans; when the seeds have developed, they are eaten as shelled peas.

260 MAMMOTH MELTING SUGAR. Pods very large, 4½ inches long, broad, curved and twisted. When young, they are very tender, stringless and fine flavored. Vines are tall, 4½ to 5 ft. high, with light foliage; are very strong growing and prolific. We strongly recommend more extensive planting of these fine quality peas.

Pkt., 10c; ½ lb., 20c; 1 lb., 35c; 2 lbs., 65c; 5 lbs., \$1.35.

261 DWARF GREY SUGAR. Pods 3 inches long, light green in color, heavily curved. Vines are about 28 inches tall. A prolific variety and best of the dwarf edible podded peas.

Pkt., 10c; ½ lb., 20c; 1 lb., 35c; 2 lbs., 65c; 5 lbs., \$1.35.

Did You Know

That for a blood-building diet there are many "iron" foods . . . among them **KALE** and **SPINACH** play an important part.

PEPPERS

Peppers are not difficult to grow. For earliest yields sow in hotbeds and transplant to the open ground in May. Cover seed very lightly and keep the soil moist. Plants should be set about 15 inches apart in rows 2½ feet apart. If the Peppers are kept picked before they turn red, the plants will produce great numbers during the season. One ounce produces about 1,000 plants.

263 KING OF THE NORTH.

Makes a tremendous yield of large, sweet Peppers. The plants are medium size, covered with large fruit similar in shape to Ruby King; but considerably earlier; rather long, narrow, tapering, flesh is thick, mild and sweet; dark green turning to rich deep red when ripe. If you have not grown King of the North Pepper be sure to plant it this season.

Pkt., 10c; oz., 55c; 2 ozs., \$1.00.

264 CALIFORNIA WONDER.

Resembles Chinese Giant in the large size and blocky form of its fruit, but having an extremely thick flesh not possessed by that variety. Fruit crimson, measuring 4½ inches in length by 4 inches in diameter, mild and sweet.

Pkt., 10c; oz., 50c; 2 ozs., 90c.

265 HARRIS' EARLY GIANT.

A very large, sweet Pepper. Plants produce enormous yields and the Peppers mature earlier than any other very large kind. Fruits are 5 inches high and 3½ inches through; deep green turning to brilliant red. Flesh thick and of a very sweet, pleasant flavor. This will be found a very valuable Pepper for the home garden and a profitable one for market.

Pkt., 10c; oz., 50c; 2 ozs., 90c.

266 CHINESE GIANT. An enormous variety sometimes attaining 6 inches in diameter. It is very even in shape, flesh thick and sweet. Very handsome and of superior quality for stuffing. Plants are vigorous and fairly prolific. Very highly recommended for home use and one of the most profitable to grow for market purposes.

Pkt., 15c; oz., 55c; 2 ozs., \$1.00.

267 BELL or BULL NOSE. A large, early sort of mild flavor. Plant vigorous, 2 feet high, very productive, and ripens its crop early and uniformly. A splendid sort for salads, mangoes and for stuffing purposes. Color deep green which becomes bright crimson when ripe.

Pkt., 10c; oz., 40c; 2 ozs., 65c.

268 RUBY KING. A very large and attractive sort, deep green color when young, bright red when ripe. Flesh thick and mild flavor. One of the best table sorts.

Pkt., 10c; oz., 40c; 2 ozs., 65c.

269 RUBY GIANT. A variety of Mango Pepper, which is of a desirable size and shape for stuffing. A cross of Ruby King and Chinese Giant, grows to large size and is very mild.

Pkt., 10c; oz., 40c; 2 ozs., 65c.

270 WORLD BEATER. One of the best of the large varieties of Peppers. Fruit 4-lobed, 5 inches long and 3½ inches in diameter. Flesh thick, mild and very sweet. Rich deep red when ripe. Plants upright and very productive.

Pkt., 10c; oz., 40c; 2 ozs., 65c.

*HOT VARIETIES

***271 HUNGARIAN YELLOW WAX.** An early variety that is larger and has thicker flesh than other hot Peppers. The fruits are 5½ to 6½ inches long and about 1½ inches in diameter, crumpled and hooked at the point. The color is waxy light yellow when young, changing to orange and then to bright red.

Pkt., 10c; oz., 60c; 2 ozs., \$1.00.

***272 LONG RED CAYENNE.** A well known medium early sort, having slender, twisted and pointed fruits about 4 inches long. Extremely strong and pungent, hence valuable for seasoning. Generally known as Lady Finger Pepper.

Pkt., 10c; oz., 40c; 2 ozs., 65c.

274 GOLDEN DAWN. A handsome, sweet, mild, yellow variety; fruit pendent, 1½ inches long and about the same in diameter.

Pkt., 10c; oz., 50c; 2 ozs., 90c.

***275 RED CHILI.** Pods about 2 inches in length, one-third to one-half inch in diameter, tapering to a sharp point. Exceedingly pungent, hence valuable for flavoring and for Tabasco Sauce. The small bright red pods are borne in great profusion, making it an ornamental plant for the garden.

Pkt., 10c; oz., 50c; 2 ozs., 90c.

276 PIMENTO. Also known as Perfection. The fruit is of good size, medium length and attractive color. The flesh is thick and solid, mild and of fine flavor. Desirable for salads and stuffed Peppers. The plants are vigorous and upright, about 2 to 2½ feet high, with short, broad, dark green leaves. The fruit is deep green when young, becoming deep red as it matures.

Pkt., 10c; oz., 40c; 2 ozs., 65c.



California
Wonder
Pepper

Select Seed Potatoes

CHOICE NORTHERN GROWN STOCK

Prices on Potatoes are constantly changing, subject to market fluctuations. Please write for current market prices when ready to purchase.



Culture. Potatoes are planted in rows 36 to 40 inches apart, dropping the potatoes 12 to 16 inches apart in the rows. It takes about 1 pound of fertilizer to 30 to 40 feet of drill, 400 to 600 pounds per acre. It takes 9 to 12 bushels to plant an acre according to size of potatoes and distance of rows apart. Plant for early crop as soon as the ground can be worked into condition. For late crop, in July or 1st of August is best.

Many potato diseases, particularly the more important ones, such as scab, black leg, black rot, stem rot, etc., were formerly treated by the old-fashioned methods which required soaking of the seed for long periods and creating a disagreeable task.

The introduction of **Improved Semesan Bel** has vastly improved these conditions by giving the grower a modern, instantaneous and effective method of disinfection at a reasonable cost and far superior in all respects to even the best of those previously employed.

EARLY OHIO. The most popular early variety. The tubers are oval, have few eyes, rather shallow. Smooth skin, white, slightly flushed with pink. It is an extra fine quality cooking potato, makes good sized yields and is a favorite in this section and many others, especially where planted in light and loamy soil.

IRISH COBBLER. This has become an exceedingly popular and profitable variety for growing for market. Tubers are oval with smooth white skin, have few eyes rather deep. Grows to large size and produces enormous yields. Vines are thrifty and a reliable heavy yield can nearly always be expected. An excellent sort for market purposes, and produces good crops both early and late.

PUMPKIN



Green Striped
Cushaw Pumpkin

A few hills of Pumpkins should be in every garden. The quality of home-grown Pumpkins is far superior to the canned product. In addition, they make excellent food for stock and can be grown among the sweet corn at practically no extra expense.

Culture. Generally planted in corn after the last working and gathered after corn has been shocked. For field crop, plant in May or June in hills 8 feet apart, about 5 to 10 seeds to the hill and cultivate until the vines get strong; then thin out leaving 2 or 3 of the strongest plants in each hill.

One ounce plants 20 hills. Two to three pounds to the acre.

260 KING OF THE MAMMOTH or POTIRON. An enormous flattened variety sometimes attaining 60 to 90 pounds in weight. It is especially desirable for exhibition purposes, and will find ready sale in most large cities at good prices.

Pkt., 10c; oz., 15c; ¼ lb., 40c; 1 lb., \$1.25.

281 JAPANESE PIE. Resembles the Cushaw Pumpkins in shape, but earlier and larger. Skin dark green, with lighter green stripes. Flesh yellowish orange, fine grained, of good flavor and quality. Weight about 12 pounds.

Pkt., 10c; oz., 15c; ¼ lb., 40c; 1 lb., \$1.25.

282 TENNESSEE SWEET POTATO. Medium size of creamy yellow color with light green stripes. Flesh thick, fine grained, dry, brittle and of excellent flavor. Unsurpassed for pies and custards.

Pkt., 10c; oz., 15c; ¼ lb., 40c; 1 lb., \$1.25.

283 GREEN STRIPED CUSHAW. Fruit fairly large with crooked neck. Skin creamy white with green stripes. Flesh yellow, very thick, rather coarse but sweet. A productive and popular sort in most sections.

Pkt., 10c; oz., 15c; ¼ lb., 40c; 1 lb., \$1.25.

285 LARGE CHEESE. A popular sort in this section for table use and stock. Fruits somewhat flattened; skin mottled light green and yellow. Flesh yellow, of tender quality.

Pkt., 10c; oz., 15c; ¼ lb., 25c; 1 lb., 75c.

286 SMALL SUGAR or NEW ENGLAND PIE. One of the best for the home garden. An excellent pie sort. Nearly round, 10 to 12 inches in diameter; rich orange color. Flesh thick, fine grained, very sweet.

Pkt., 10c; oz., 15c; ¼ lb., 35c; 1 lb., \$1.00.

287 CONNECTICUT FIELD. Used for planting in corn, for stock feeding and also for making pies. Fruits often 15 inches in diameter; smooth reddish orange ribbed skin with orange-yellow flesh.

Pkt., 10c; oz., 15c; ¼ lb., 30c; 1 lb., 90c.

288 KENTUCKY FIELD. Grown generally throughout the central section for stock feeding. Fruits very much flattened, creamy yellow color; flesh orange. Very productive.

Pkt., 10c; oz., 15c; ¼ lb., 25c; 1 lb., 50c.



New England Pie Pumpkin

SAGE

307 BROAD LEAF. An ornamental gray-leaved plant with blue flowers. Pick the leaves when half grown, dry, and powder them. An old favorite for flavoring meat and poultry dressings. Sow in the open ground. Thin plants to 6 inches apart.

Pkt., 15c; oz., 70c.

SALSIFY

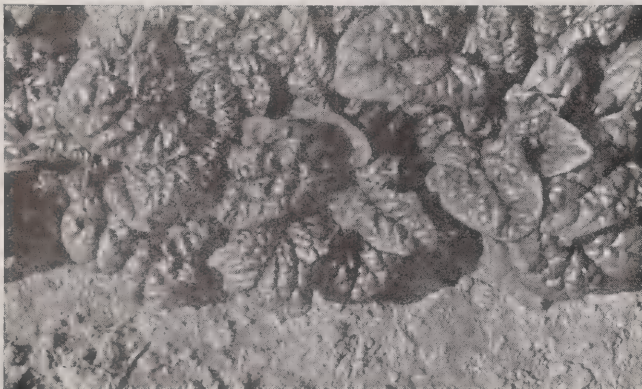
Often called "Oyster Plant" and is easily grown. A desirable winter vegetable which should be more extensively used throughout the Central States. Roots are palatable and can be served boiled or as fritters.

Culture. Sow in April in rows 18 inches apart, thinning out to 4 to 6 inches. Cultivate deeply and often. It is hardy and will remain out all winter, but if desired can be dug before winter and stored in earth or sand to keep it from wilting.

One ounce sows 75 feet; 6 to 8 lbs. per acre.

308 MAMMOTH SANDWICH ISLAND. The best sort, which is much larger and a great improvement over the old-fashioned long sort.

Pkt., 10c; oz., 30c; ¼ lb., 75c.



Old Dominion Spinach
Grown by Fred Meyer, Madisonville, Cincinnati, Ohio

SPINACH

Has long been one of the most popular of all greens and in some sections is grown in enormous quantities. In this locality Spinach is sown broadcast in March or April for early crop and from July to September for fall and winter crop at the rate of about 10 to 15 lbs. per acre. It can also be sown in drills 12 to 15 inches apart and cultivated. One ounce sows 50 ft. of drill. 15 pounds per acre in drills. 20 pounds per acre, broadcast. One-half pound is sufficient for a medium garden.

309 OLD DOMINION. A Longer Standing Blight-Resistant. This new Spinach is a cross between Blight Resistant Savoy and King of Denmark. It has the large dark green crumpled leaf of the Savoy and stands up longer than other blight-resistant kinds. This variety yields large crops and holds up well when cut. It is a very valuable kind for spring sowing in places where spinach blights.

Pkt., 10c; oz., 15c; ¼ lb., 40c.

310 KING OF DENMARK. This variety is superior to all others for spring planting, as it stands longer without bolting to seed. Has an abundance of dark green leaves of large size and somewhat blistered. It is fit for use in thirty days from sowing and remains in good condition fully 2 weeks after other varieties have started seed-stalks.

Pkt., 10c; oz., 15c; ¼ lb., 40c.

311 BLOOMSDALE SAVOY RESELECTED. A very early sort, especially desirable for fall use. Plant is upright, having glossy, thick, crumpled, pointed, green leaves. A favorite sort for market gardeners and truckers.

Pkt., 10c; oz., 15c; ¼ lb., 40c.

312 ROUND THICK LEAF. One of the best sorts for spring sowing as it is somewhat slower to go to seed than Bloomsdale. Plant upright, vigorous; leaves large, thick, fresh bright green color.

Pkt., 10c; oz., 15c; ¼ lb., 40c.

313 NEW ZEALAND. An especially desirable sort for summer use as it thrives during hot weather when other spinach would fail. It has tender shoots of good quality which may be cut throughout the summer. Plant becomes very large and spreading; leaves small, broad and pointed. Plant 3 or 4 seeds in hills 2 feet apart each way. Germination will be hastened by soaking in warm water 24 hours before planting.

Pkt., 10c; oz., 15c; ¼ lb., 40c.

RADISH

Finest Seed Stocks

One ounce sows 75 feet of drill. If broadcast requires 10 to 12 pounds per acre. For forcing in frames sow in January or February. Out-of-doors, sow from March to June for early summer crop. For late, sow from July to September. Early sorts mature and are ready for the table in 21 to 30 days from sowing.

Culture. Quick growth is essential for tender, crisp Radishes. Hence, rich soil and plenty of moisture are essential. They can be sown at intervals of ten days to two weeks for early use or grown as a catch crop between rows of beets, lettuce, onions, etc.

Round Varieties

290 EARLY WHITE TIPPED SCARLET. One of the handsomest of the turnip varieties and a general favorite in nearly all large markets. It is excellent as a forcing sort or for earliest planting outdoors. Roots nearly round, slightly flattened on under side. Color very deep scarlet with distinctive white tip. Flesh white, of best quality. We strongly advise more extensive planting of this sort in this locality. **Pkt., 10c; oz., 15c; ¼ lb., 35c; 1 lb., \$1.00.**

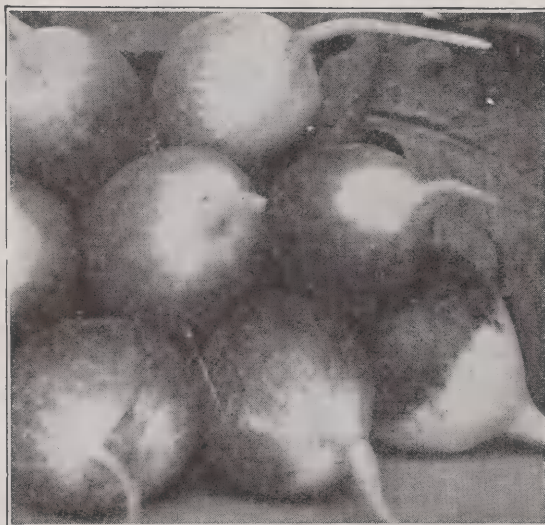
291 EARLY WHITE TURNIP. Similar to Early Scarlet Turnip but little more flattened and slightly earlier maturing. It has very small tops, is of thick growth, suitable for forcing or early planting. Color clear white; flesh crisp and tender. **Pkt., 10c; oz., 15c; ¼ lb., 35c; 1 lb., \$1.00.**

294 FRENCH BREAKFAST. A small olive-shaped variety about 1½ inches long, which is very quick growing. Color beautiful deep scarlet shading to white at the tip. Top small. Quick maturing and splendid for very earliest crop. **Pkt., 10c; oz., 15c; ¼ lb., 35c; 1 lb., \$1.00.**

295 CRIMSON GIANT. This variety is suitable both for forcing or early planting out-of-doors. A remarkable feature of this Radish is that it will grow double the size of other red forcing Radishes and still remain solid. The ordinary forcing Radish, after growing to the size of 2 inches in circumference becomes pithy, while the Crimson Giant will grow to 6 inches in circumference and still remain solid and juicy. **Pkt., 10c; oz., 15c; ¼ lb., 35c; 1 lb., \$1.00.**

296 EARLY SCARLET TURNIP. A well-known sort producing round or oval roots of bright scarlet color. Flesh white, crisp, tender. Tops medium, quick growth; desirable for early planting. **Pkt., 10c; oz., 15c; ¼ lb., 35c; 1 lb., \$1.00.**

297 EARLY SCARLET GLOBE. One of the very best and most showy Radishes for earliest forcing or growing outside. Roots are slightly olive shape, rich bright scarlet color; flesh white and tender. It is fit to pull very early and is especially desirable for market gardeners on account of the showy qualities. **Pkt., 10c; oz., 15c; ¼ lb., 35c; 1 lb., \$1.00.**



Early White Tipped Scarlet Radish

Fall Radishes

302 LONG BLACK SPANISH. A favorite late sort, producing long, thick, almost black roots, with white flesh of fine texture. Decidedly pungent but well flavored. Roots are usually 7 to 9 inches long, 2 to 3 inches in diameter, and it is one of the best of the long sorts and especially adapted for winter use. **Pkt., 10c; oz., 15c; ¼ lb., 40c; 1 lb., \$1.25.**

303 CHINA ROSE WINTER. A popular sort producing cylindrical roots, stub-rooted, blunt at both ends. Is bright, deep rose color shading to white. Skin smooth, flesh white, crisp, tender and pungent. Roots usually 4 to 5 inches long, 1½ to 2 inches in diameter. Splendid for fall and winter. **Pkt., 10c; oz., 15c; ¼ lb., 40c; 1 lb., \$1.25.**

304 WHITE CHINESE or CELESTIAL. A large, stump-rooted Radish with white skin and flesh. Can be sown from July 1st to August 15th, and will keep in prime condition a long time; mild in flavor, brittle and never woody. Fine for market gardeners. **Pkt., 10c; oz., 15c; ¼ lb., 40c; 1 lb., \$1.25.**

305 CALIFORNIA MAMMOTH WHITE WINTER. A giant fall and winter variety. Roots from 9 to 12 inches long, 2 to 3 inches through, tapering regularly to the tips, smooth and cylindrical in form; skin and flesh white, tender and crisp. **Pkt., 10c; oz., 15c; ¼ lb., 40c; 1 lb., \$1.25.**

306 ROUND BLACK SPANISH. Roots globe-shaped; 3½ to 4 inches in diameter; skin somewhat roughened; black; flesh white, firm, crisp, and pungent. **Pkt., 10c; oz., 15c; ¼ lb., 40c; 1 lb., \$1.25.**



Long White Icicle Radish



Cincinnati Market

Long Varieties

298 CINCINNATI MARKET. A popular sort in this section and has long been a favorite with market gardeners. It is brilliant crimson with white slightly tinged flesh, exceedingly sweet and tender. Grows 6 to 7 inches in length, straight and smooth and does not become hollow and pithy until very old. A fine sort for either market or home use.

299 LONG SCARLET SHORT TOP. An old standard sort, excellent for home garden or market. Tops short and small. Roots smooth, tender, uniform shape; attractive bright red color. **Pkt., 10c; oz., 15c; ¼ lb., 35c; 1 lb., \$1.00.**

300 LONG WHITE ICICLE. The earliest of the long white varieties which is popular for forcing and earliest outdoor or early summer crop. It is productive and of excellent quality, crisp and tender. Roots are usually 5 to 6 inches long and about ½ inch in diameter with small tops. **Pkt., 10c; oz., 15c; ¼ lb., 35c; 1 lb., \$1.00.**

301 WHITE STRASBURG. A long, white Radish for summer use. Even when small it is fine quality; remains crisp and tender much longer than other varieties. Roots 1½ to 3 inches thick. 5 to 6 inches long, tapering. Tops medium; roots smooth, crystal white; handsome, showy, crisp and tender; desirable for market or family use. **Pkt., 10c; oz., 15c; ¼ lb., 35c; 1 lb., \$1.00.**

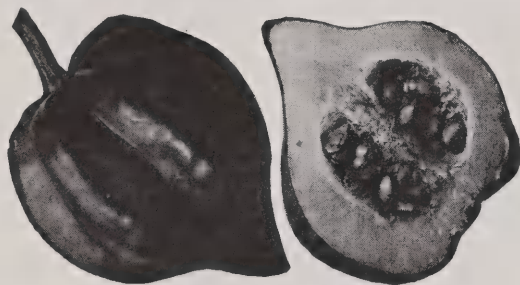


Table Queen Squash

TOBACCO

Culture. The seed is sown from February to April in open beds. Ground must be clean, very finely pulverized, raked fine and smooth. It is customary to burn over the top of the bed by piling brush or litter to destroy weed seeds and add fertility for the young plants. After sowing, beds are protected with thin cotton cloth, similar to cheese-cloth, to protect them from Tobacco flies. About June 1st the plants are set in rich or highly fertilized ground in rows 4 feet apart each way. An ounce sows about 50 square yards, sufficient to set 2 or 3 acres.

324 KELLY'S IMPROVED TYPE WHITE BURLEY. A heavy yielder of rich, bright leaf, large, long and broad. It is fast becoming the most popular type of Burley and is largely grown by planters in all Burley sections.

Pkt., 10c; ½ oz., 40c; oz., 70c; ¼ lb., \$2.00.

325 JUDY'S PRIDE TYPE WHITE BURLEY. This variety has won great popularity in certain sections of Kentucky and Tennessee, and we think it is a good stand-up Burley. The leaf is broad, long and tapering, with prominent white ribs. The stalk is strong and holds the leaves well up off the ground. It has every characteristic of an excellent Burley and should produce a bright leaf of high quality.

Pkt., 10c; ½ oz., 40c; oz., 70c; ¼ lb., \$2.00.

TURNIPS

One of the easiest crops to grow and profitable for stock feeding and in most cases for markets. They cost so little to grow, make splendid nutritious feed and should be more generally used.

Culture. For early use, sow in March or April, either broadcast, or in drills, using preferably Milan or Purple Top Strap Leaf or Globe.

Turnips for main crop are sown from July to September 15th, broadcast 1½ to 2 lbs. per acre. An ounce will sow about 300 feet. Turnips for greens can be sown as late as October 1st, and require 3 to 4 lbs. per acre.

355 EARLY PURPLE TOP MILAN. Extra early variety which is very sweet and particularly valuable for sowing in early spring. Roots are medium size, plants purple, top flat. Best for private gardens and preferable to grow for early market crop.

Pkt., 10c; oz., 15c; ¼ lb., 45c; 1 lb., \$1.25.

356 PURPLE TOP STRAP LEAF. A well-known early sort which is largely used in all sections. Our stock is extra choice.

Pkt., 10c; oz., 15c; ¼ lb., 25c; 1 lb., 60c.

357 PURPLE TOP WHITE GLOBE. A very superior strain, producing large, smooth roots, which are sweet and tender. One of the best for early or main crop use. Excellent either when young or fully matured.

Pkt., 10c; oz., 15c; ¼ lb., 25c; 1 lb., 60c.

358 EARLY WHITE FLAT DUTCH. Similar to Early Purple Top Flat, excepting that it is white all over. Quick grower, excellent quality, and splendid for early crop.

Pkt., 10c; oz., 15c; ¼ lb., 25c; 1 lb., 60c.

359 POMERANIAN WHITE GLOBE. Flesh white, firm and crisp; a very desirable early variety.

Pkt., 10c; oz., 15c; ¼ lb., 25c; 1 lb., 60c.

360 WHITE EGG. An early, oval variety with smooth, clear white roots, medium size, which grows half out of the ground; top small; flesh clear white, fine grained, sweet. Excellent either when young or fully matured.

Pkt., 10c; oz., 15c; ¼ lb., 25c; 1 lb., 60c.

361 SEVEN TOP. Used entirely for greens; popular in the South.

Pkt., 10c; oz., 15c; ¼ lb., 25c; 1 lb., 60c.

Rutabaga or Swedish Turnips

Rutabagas require longer to mature than the common turnips and should be sown earlier. To get heavy crops of large turnips sow the seed June 15 to July 1 in rows 2 to 2½ feet apart. Thin the plants to a foot apart. Rutabagas make excellent winter feed for sheep. For table use, Rutabagas can be sown later and will be of better quality, but not as large as when sown early. These turnips keep well and may be stored in the cellar in moist sand or in pits for use during the winter.

365 AMERICAN PURPLE TOP. Our stock of this is extra choice and can be depended on by the most critical growers. Rutabagas besides being best food for stock, is the sweetest of all Turnips for table use.

Pkt., 10c; oz., 15c; ¼ lb., 25c; 1 lb., 75c.

SQUASH CALLED CYMLING IN THE SOUTH

Summer squash requires one ounce to 30 hills. Winter varieties one ounce to 15 hills and 1 to 4 pounds per acre.

Culture. Plant when the weather has become settled and the ground fairly warm. Bush varieties are planted 3x4 ft.; running varieties 6x8 ft.; about 4 to 6 seeds per hill and thin out later leaving the strongest plants about 3 to the hill. Hills similar to those made for Cucumber with well-rotted manure or fertilizer are best. Winter varieties may be stored in a moderately warm dry place of even temperature.

Summer Varieties

314 COCOZELLE GREEN BUSH or ITALIAN VEGETABLE MARROW.

This is a most delicious and fine flavored sort of Squash. It is becoming more in demand each year. The color is a deep green when young, ripening with alternate stripes of green and gold. The shape is long and slender. It is used when 10 or 12 inches long and is boiled or cut in slices and fried in butter.

Pkt., 10c; oz., 15c; ¼ lb., 40c; 1 lb., \$1.25.

315 EARLY SUMMER STRAIGHTNECK. This summer Squash has almost entirely replaced the Crookneck type, in both home and commercial gardens. It differs from the Crookneck only in shape; the "neck" instead of being curved is straight and more attractive in appearance and much easier to pack in crates for shipping. The fruit is lemon-yellow in color—about 14 inches long and 3½ inches in diameter.

Pkt., 10c; oz., 15c; ¼ lb., 40c; 1 lb., \$1.25.

316 EARLY YELLOW SUMMER CROOKNECK. An extensively used summer sort, with bush type of plant, and very prolific. Fruits curved at neck and weighing about 3 pounds. Color is light yellow at early stage and covered with warts. Pkt., 10c; oz., 15c; ¼ lb., 40c; 1 lb., \$1.25.

317 MAMMOTH WHITE BUSH. A well-known early variety, largely planted in the South both for market and home use. Color is creamy white with comparatively smooth surface, somewhat flattened and scalloped. Vines are bushy, vigorous and very productive. Known as Patty Pan and Cymling in the South.

Pkt., 10c; oz., 15c; ¼ lb., 35c; 1 lb., \$1.00.

Winter Varieties

318 VEGETABLE SPAGHETTI or GOLDEN MACARONI. Like any Squash, the fruits are set on vining plants. The Vegetable Spaghetti is light golden color and measures about 10 inches long and 5 inches in diameter. A good keeper and can be used as required. Cook whole and cut open. The flesh is in loose shreds, which is very tasty.

Pkt., 10c; oz., 15c; ¼ lb., 50c; 1 lb., \$1.50.

319 TABLE QUEEN or DES MOINES. Also called Acorn. Desirable for home and market garden use. Trailing in habit, with acorn-shaped fruits, which average about 6 inches long by 4 inches wide, just right to serve one-half to a person. Color dark green, except when over-ripe, when it changes to buff. Flesh is orange color and sweet.

Pkt., 10c; oz., 15c; ¼ lb., 45c; 1 lb., \$1.25.

320 IMPROVED HUBBARD. One of the best winter squashes, flesh bright orange-yellow, fine grained, very dry, sweet and richly flavored. Fruit large, oval-shaped; skin dark green, rough, covered with warts. Excellent keeper.

Pkt., 10c; oz., 15c; ¼ lb., 45c; 1 lb., \$1.25.

321 GOLDEN HUBBARD. Similar to the old Hubbard excepting the skin is of a rich orange-red and heavily warted, flesh of extra fine quality.

Pkt., 10c; oz., 15c; ¼ lb., 45c; 1 lb., \$1.25.

322 WARTED HUBBARD. Similar in fruit and shape to Hubbard except that the surface is very much warted. It is very handsome in appearance and of extra quality.

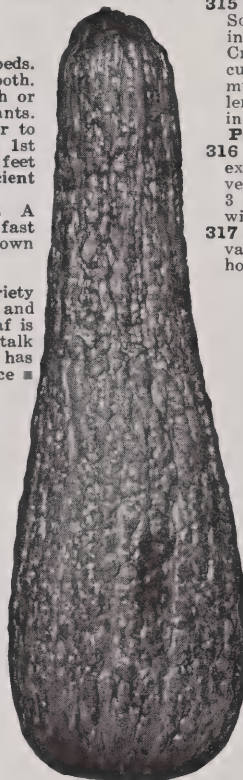
Pkt., 10c; oz., 15c; ¼ lb., 45c; 1 lb., \$1.25.

323 BANANA. Excellent winter squash. Fruit 18 to 24 inches long and about 7 inches in diameter. Skin gray-blue and not so hard as that of the Hubbards. Flesh fine grained, deep yellow, dry, sweet.

Pkt., 10c; oz., 15c; ¼ lb., 45c; 1 lb., \$1.25.

SWISS CHARD

See under Table Beets on page 6.



Giant Summer Straightneck Squash



Vegetable Spaghetti

TOMATO

Culture. For earliest crop, sow in a hotbed or shallow boxes in February or March, transplanting when 2 or 3 inches high to small pots, trays or cold frames. When danger of frost is past (usually in this climate the 1st to 10th of May), set in open ground 3x4 feet apart. Tomatoes should be staked to keep the fruit from the ground and it will also help to prevent blight, mildew, and make them more prolific.

One ounce produces about 2,000 plants; 2 ounces produce enough plants to set one acre. For early crops sow in February; for late crops sow in open bed in April or May.

Wilt-Resistant Varieties

326 BREAK O' DAY. The round, smooth fruit matures early. Color deep orange-red, very solid, and of high quality. Resistant to blight and bear abundantly. Pkt., 15c; oz., 60c; 2 ozs., \$1.00.

327 MARGLOBE. A main crop, blight-resistant variety. Fruits are large, globe-shaped, smooth, color perfectly all over, and are deep red all through. It will stand longer after it becomes flushed than any other variety of Tomato. Pkt., 10c; oz., 50c; 2 ozs., 85c.

328 PRITCHARD or SCARLET TOPPER. This is one of the finest Tomatoes ever grown. The fruits are medium to large, round, flesh is thick, firm, and with small seed cavity. Brilliant red in color and have been resistant to cracking. An excellent home and market variety. Pkt., 15c; oz., 60c; 2 ozs., \$1.00.

Early Varieties

333 BONNY BEST. The fruits of this desirable early sort are most attractive in shape and color. The crop ripens more uniformly than any other early scarlet fruited sort. The vines are vigorous and produce a good crop of exceptionally round and deep fruits, bright deep scarlet in color and of very good quality. Pkt., 10c; oz., 45c; 2 ozs., 75c.

330 CHALK'S EARLY JEWEL. A particularly desirable sort with purplish scarlet fruit, nearly round, smooth, of large size and of most excellent quality. Fruit ripens early and is not inclined to crack, is early and pickings are extended over a long season. Pkt., 10c; oz., 50c; 2 ozs., 85c.

331 EARLIANA. A deep scarlet, very early variety. Fruit is borne in clusters, is medium to large, nearly round, and exceptionally smooth for so early a variety. On account of its extreme earliness and the fact that the crop ripens uniformly and very early, it is one of the most valuable of the early sorts. Pkt., 15c; oz., 60c; 2 ozs., \$1.00.

332 JOHN BAER. Similar in every respect to Bonny Best, but often a few days earlier. Fruits bright deep scarlet-red; medium large; flattened globe-shaped; smooth and firm. Pkt., 10c; oz., 50c; 2 ozs., 85c.

333 JUNE PINK. An extra early, purplish pink sort, similar to Earliana except in color. It is a valuable variety for market gardeners and truckers, especially on markets where purplish sorts find ready sale. Pkt., 15c; oz., 60c; 2 ozs., \$1.00.

Second Early and Main Crop

334 BEAUTY. One of the most satisfactory and popular sorts. Fruits are purplish pink, ripen evenly, are uniform in size, very solid and of finest quality. They are exceptionally smooth and do not crack readily. Vines large, vigorous and very productive, ripening fruits about midseason. Pkt., 15c; oz., 60c; 2 ozs., \$1.00.

335 CINCINNATI PURPLE. A favorite sort in this locality and one of the very best for home use. It is very round, smooth, solid and of splendid flavor. Vines are vigorous and remarkably productive. Fruits of large size, very meaty; have small seed cells and are of rich flavor. Pkt., 15c; oz., 60c; 2 ozs., \$1.00.

336 CRIMSON CUSHION or BEEF-STEAK. Is very large, round and regular; bright scarlet skin, solid flesh of best quality, seed cells small. Plants are very prolific and of fine appearance. Pkt., 15c; oz., 75c; 2 ozs., \$1.25.

337 DWARF CHAMPION. An early variety which is very dwarf growing. The vines are so stiff that they are generally self-supporting. Fruits medium size, purplish red and borne moderately early. On account of its strong, upright growth, it is sometimes sold as Tree Tomato and is desirable on extremely rich soil and where tall varieties have a tendency to make too much vine. Pkt., 15c; oz., 60c; 2 ozs., \$1.00.

338 GREATER BALTIMORE. A heavy, thick-meated, midseason, scarlet-red variety. Large, smooth and solid. Ripens evenly. Pkt., 10c; oz., 45c; 2 ozs., 75c; 1/4 lb., \$1.25.

339 OXHEART. Because of its oxheart shape, large size, as well as excellent table qualities, it has quickly come into general favor. The skin is pink and the flesh frequently shows 2 inches thick, without a seed cavity. The flavor has that delicious tomato quality that every lover of this fruit knows so well. Pkt., 20c; oz., 95c; 2 ozs., \$1.75.

340 PONDEROSA. One of the largest and finest varieties for home use. It is purplish pink in color. Vines vigorous, tall, fairly productive. Fruits are very solid and have exceptionally few seeds. It is fairly smooth for so large a variety and sometimes attains such a size that one slice will cover a dinner plate. Very free from acid, has few seeds, is of delicious flavor and most excellent for slicing; ripens about midseason. Most desirable for home use, and the large showy handsome fruits are popular sellers for fancy fruit stands. Pkt., 15c; oz., 75c; 2 ozs., \$1.35.



Pritchard or Scarlet Topper Tomato

341 STONE. One of the very best Tomatoes, producing large, very smooth, solid fruit slightly flattened, deep red color. It is very popular with all market growers and especially desired by canners. Ripens midseason. On account of its large yield and general uniformity in production we strongly recommend it for both market gardens and home use. Pkt., 10c; oz., 30c; 2 ozs., 55c; 1/4 lb., 90c.

342 TRUCKERS FAVORITE. A large, deep purple variety, producing uniform size fruit. It is somewhat deeper color than Beauty; fruit being more globe-shaped, largely used for main crop, producing fine yields of large, smooth, solid fruits which command best prices—hence very popular with truckers and market gardeners. Pkt., 15c; oz., 60c; 2 ozs., \$1.00.

Yellow Tomatoes

343 GOLDEN QUEEN. A large growing variety bearing abundantly. Fruits are golden yellow color, smooth, well shaped and desirable for slicing as a contrast with red varieties on the table. Pkt., 10c; oz., 50c; 2 ozs., 85c.

344 YELLOW PONDEROSA. A large, mild-flavored variety. Strongly resistant to wilt. Fruits very large, golden yellow, quite solid, with small seed cells. Pkt., 15c; oz., 75c; 2 ozs., \$1.35.

Small Fruited Tomatoes

For preserves, pickles and decorative purposes.

347 RED CHERRY. Fruits small, round, rich deep red. Pkt., 15c; oz., 75c.

348 RED PEAR. Pear shape; about 2 inches long. Pkt., 15c; oz., 75c.

349 YELLOW PEAR. Pear shape, about 2 inches long. Pkt., 15c; oz., 75c.

350 YELLOW PLUM. Fruits oval; about 2 inches long; clear deep yellow. Pkt., 15c; oz., 75c.

Tomato Plants

Leading varieties in season. We do not send these plants by mail.



Marglobe Tomato

ALL 10c PACKETS ARE 1 FOR 25c; ALL 15c PACKETS ARE 1 FOR 25c — When ordering, see page 64 of this catalog.



Aster, Giant Harmony

1507 Antirrhinum (Snapdragon) Half-Dwarf Rust Resistant Amber and Gold

The buds of this variety first appear as soft rose-pink. As the spikes open to full bloom they show full golden yellow lips, and hoods of golden amber with the same rich amber blend on their lower face. The throat or tube of each floret is a soft shade of rose-pink.

Amber and Gold grows 18 inches tall and produces plants with 10 and 12 sturdy base-branching spikes. This is the true upright habit and each spike is as long as the plant is tall. This variety is the first Rust Resistant terra cotta color in the half dwarf bedding class. **Pkt., 20c; 3 for 50c.**

1508 Petunia - Balcony Maculata

This variety is of the Balcony type and is effective for mass effect plantings, window boxes or any other use where vigorous growth and large flowers are enjoyed. Maculata is a large flower and semi-ruffled with a pure white base, deep rose, red and striped flowers. **Pkt., 20c; 3 for 50c.**

Aster, New Wilt Resistant Princess Type

The new Princess Type Aster provides a needed new form for cut flowers. The blooms, which are similar to the older Aurora Type, have a full crested center surrounded by several rows of strong large petals. Plants are from 18 to 24 inches in height, stems strong, of good length, and plants are free blooming. Flowers are from 3 to 3½ inches and the class is early flowering. As cut flowers they have excellent keeping qualities.

1509 PRINCESS ANNE. The well-known peach blossom shade, opening delicate pink and turning rose-pink as the flowers mature. Flowers are of good substance and heavy stems. **Pkt., 20c; 3 for 50c.**

1510 PRINCESS BONNIE. A very beautiful soft salmon-rose shade with the center rich gold while opening. A new color combination in Asters. **Pkt., 20c; 3 for 50c.**

1511 PRINCESS MARSHA. A strong, vibrant cinnabar-scarlet, boldly contrasted with a rich gold center of the young flowers. As the flowers open and mature, the golden center turns a silvery cinnabar. Princess Marsha brings an exciting new color to the garden and is most effective in flower arrangements. **Pkt., 20c; 3 for 50c.**

Aster, Giant Harmony Type

The Harmony Type is an excellent non-resistant cutting strain. The large flowers have full double quilled rounded centers, surrounded by several rows of broad, short, large petals. Plants are 2 to 2½ ft. tall with long basal branching stems, carrying 4- to 4½-inch blooms.

1512 MOONLIGHT. A beautiful, soft azure-blue, high lighted by the gold of the center as the flower opens. **Pkt., 20c; 3 for 50c.**

1513 MORNING MIST. A mid-blue shade 2 to 3 shades deeper than Moonlight. **Pkt., 20c; 3 for 50c.**

1514. SUNRISE. This variety brings an entirely new shade to Asters, the very exquisite, delicate shade of apricot-pink, with a rich apricot golden center. This is one of the pastel shades so much in demand by both the cut flower grower and the home gardener. **Pkt., 20c; 3 for 50c.**

1515 GIANT HARMONY MIXTURE. A mixture of the above named varieties as well as lovely shades of light and deep blue, flesh, peach blossom, silvery rose, purple and white. **Pkt., 15c; 2 for 25c; ½ oz., 60c.**

Flower Seed Novelties

1501 Ageratum, Midget Blue

A very dwarf Ageratum growing 2 to 3 inches high with delicate, fine foliage, which is practically smothered with small, true Ageratum-blue flowers. Awarded a Silver Medal in the 1939 All-America trials. **Pkt., 15c; 2 for 25c.**

1502 Alyssum, Violet Queen

The white flowering Sweet Alyssum, with its honey-like odor, has long been an indispensable garden favorite, more especially the dwarf, compact forms, which are of such charming effects as edgings in the makeup of summer borders. From the original white form some colored varieties have been developed, but none of a very decided shade. The flowers of this new variety are a very bright violet tint, and we have no doubt that Violet Queen will be found of much value as a pleasant alternative to the old favorite white-flowering variety. **Pkt., 15c; 2 for 25c.**

1503 Antirrhinum (Snapdragon) Super Giants Rust Resistant Copper Queen

This is a new and distinct variety in the super giant group. The color is a beautiful bronzy copper, blending to antique gold at the nose. Its sharp, bright freshness reminds one of the appearance of new money right from the mint. It is entirely distinct because its color is much brighter and more of a true copper. The habit is excellent with usual long stems and large flowers. **Pkt., 20c; 3 for 50c.**

1504 Antirrhinum (Snapdragon) Half-Dwarf Rust Resistant Apple Blossom

This is the first pink to be offered in the Rust Resistant Half-Dwarf class. It has been named Apple Blossom because the blooms, although smaller, are exactly the same color as the Super Giant Apple Blossom which has proved very popular. **Pkt., 20c; 3 for 50c.**

1505 Antirrhinum (Snapdragon) Half-Dwarf Rust Resistant Gypsy Girl

Color is a rich carmine with a splash of golden yellow on the nose. The white tube seems to provide a white pedestal on which to display the beautiful color combination of rich carmine and golden yellow. Each plant will produce from 12 to 15 spikes. **Pkt., 20c; 3 for 50c.**

1506 Antirrhinum (Snapdragon) Half-Dwarf Rust Resistant Du Barry

This variety is a flaming salmon-rose, with gold shadings that serve to heighten its intensity. It is a solid color of great brilliance that covers each completely. Similar in habit to Amber and Gold, reaching a height of 18 inches and producing compact base-branching plants. **Pkt., 20c; 3 for 50c.**



Lycopodium, Firmament

and Specialties for 1941

1516 Cynoglossum, Firmament

We believe this novelty will rapidly become very popular for it has all the essentials of a good garden plant. Firmament is as easy to grow as any hardy annual. It is compact and free flowering. Flowers resemble those of forget-me-nots and are bright indigo-blue in color. Hardy annual, height 1 to 1½ ft. Awarded Bronze Medal, 1938 All-America Selections. **Pkt., 15c.**

Giant Pacific Delphiniums

(Originator's Stock)

This new strain of Delphinium originated on the Pacific Coast and is without doubt, the finest in existence. The spikes are strong and closely set, the flowers are as large as a silver dollar. Comparatively mildew-resistant, this strain is practically 100 per cent double. A splendid strain for cut flowers, possessing excellent keeping qualities.

1517 CAMELIARD SERIES. This is a pure lavender self, with white bee, possessing perfection of form of the individual flowers, which are very round and flat. Beautifully balanced spikes combined with excellent growing habits. **Pkt., 50c.**

1518 ROUND TABLE SERIES. As the name implies, this represents all the color combinations. This year some 300 different crosses were used to make up this group, combining all the new color developments and possessing size that will make them invaluable for show purposes. **Pkt., 50c.**

1519 BLACK KNIGHT SERIES. The darkest of them all. Individual flowers 2½ to 3 inches in diameter. Of beautifully rounded form, with heavy velvety texture, which gives the color not seen before in Delphiniums. Very long, well-formed spikes. **Pkt., 50c.**

1520 BLUEJAY SERIES. The bluest of the present blues, ranging from medium to dark with strongly contrasting dark bee. Very long spikes, quite mildew-resistant. **Pkt., 50c.**

1521 GALAHAD SERIES. Clear white of enormous size, averaging 3 inches in diameter of individual flowers with very heavy glistening texture, pyramidal spikes with well-placed flowers, good branching habit, strong whippy stems with a high percentage of mildew-resistance. The Galahad Series not only puts the white on a par with the largest and strongest Delphiniums, but in a great many cases supersedes them. **Pkt., 50c.**



Marigold, Mission Giant Goldsmith

THE NEWEST MARIGOLDS

1522 Marigold, Spry

This extra dwarf double French Marigold is one of the most profuse blooming in the dwarf class. Plants are of the true Lilliput form, extremely dwarf and compact, being about 9 inches high and spreading 15 inches, suited for borders, edging and pots. Flowers grow 1½ inches across and have a bright, clear yellow crested center surrounded by several rows of mahogany-red guard petals. These flowers cover the tiny plants which come into bloom in less than 9 weeks from seed. Awarded Silver Medal All-America Trials 1940. **Pkt., 25c.**



Aster, Wilt-Resistant, Princess Bonnie

1523 Marigold, Mission Giant Goldsmith

A new and distinct type of Marigold with giant Chrysanthemum-like blooms. The plants grow from 2 to 3 feet high and show more than the ordinary amount of vigor. This new type of Marigold is unique in at least one respect, the lateral or side branches produce just as large, if not larger, blooms than the center stem. It is very early, coming into bloom fully 2 weeks ahead of the ordinary African Types. Blooms 4 inches in diameter, almost a perfect ball, color rich golden orange. Awarded Bronze Medal All-America Trials 1940. **Pkt., 25c.**

1524 MISSION GIANT MIXED. The habits the same as the variety Goldsmith, the colors in the blend are deep, medium and golden orange as well as a bright lemon. **Pkt., 15c; 2 for 25c; 1/16 oz., 50c.**

1525 Marigold, Scarlet Glow

Dwarf Double French. The brightest red of all dwarf double French Marigolds, flowers open deep scarlet and as they age turn to a rich tangerine color. They are fully double, 1¾ to 2 inches across and borne most profusely on dwarf plants. Will bloom in 10 weeks from seed and continue until frost. **Pkt., 25c.**

1526 Marigold, Dwarf Gigantea Pot O' Gold

The plants are dwarf and compact, growing 12 to 15 inches in height, well-branched, very neat in appearance and bearing a dozen or more of its large blooms at a time. The flowers are loosely formed, very full centered with broad heavy petals gracefully overlapping, making a flower of great depth and beauty. Individual blooms are 4 to 4½ inches in diameter and the color a most penetrating shade of bright deep golden orange. This strain is exceptionally early flowering. Primarily a bedding subject for the garden, Pot O' Gold may also be used as a cut flower indoors as the stems are 10 to 12 inches in length. **Pkt., 20c; 3 for 50c.**

1527 Marigold, Dwarf Gigantea Gypsy Jewels

Like its color variety counterpart, Pot O' Gold, Gypsy Jewels is a colorful, very showy addition to any garden. Gypsy Jewels is a mixture of wide range of brilliant colors including deep orange, dazzling golden orange, golden yellow, canary-yellow, lemon and primrose. **Pkt., 20c; 3 for 50c.**

1528 Marigold, Harmony Type Dwarf French Double Harmony Hybrids

These excellent new Marigolds are selected from the popular variety Harmony. They embody all the fine features of Harmony, combined with a wide and varied color arrangement including popular Harmony, new variety Spotlight, lovely golden orange shade and a distinct golden yellow and innumerable spotted and colored combinations of golden orange with maroon and various shades of golden and lemon yellow with the contrasting dark maroon. Flowers have the familiar crested center flanked by several rows of broad guard petals. The compact plants are from 12 to 14 inches in height, 100 per cent all double. Blooms early. Flowers of medium size averaging 1¾ inches in diameter and they do not have the strong Marigold odor. **Pkt., 15c.**



Petunia, Radiance

1529 Marigold, Harmony Type "Ferdinand" (Tall Single French)

Saucy, sprightly and colorful, Ferdinand is one of the gayest of our new flowers. Unlike its companion in our new Harmony Type group, Ferdinand is single flowered with a neat round, crested center of dainty tubular florets in an arresting shade of golden yellow surrounded by a single row of broad, mahogany-red guard petals. While the flowers are of only medium size, $1\frac{1}{2}$ to $1\frac{3}{4}$ inches in diameter, they are extremely showy and attractive. The plants are tall growing, 20 to 24 inches, with an upright, semi-compact, yet full foliage growth habit. Stems are well over a foot in length, making Ferdinand a fine new cut flower subject as well as an attractive and showy garden plant. Like all of the Harmony Type Marigolds, Ferdinand is early blooming, commencing to flower within 3 months after the seed is sown, and does not have the strong Marigold odor. **Pkt., 15c.**

1530 Petunia, Blue Brocade

This Petunia belongs to the Victorious, or Dwarf All-Double Type. It is a true violet-blue. True to type and color, stocky growth, an excellent bloomer of good size flowers. New and rich in color with giant fringed flowers. A very high percentage of fully double flowers of pleasing fragrance. Awarded Silver Medal All-America Trials 1940. **Pkt., 45c.**

1531 Petunia, Radiance

One of the most brilliant of all the Petunias regardless of type. A cerise-rose with enough underlying salmon to remove the harshness, commonly found in a cerise-rose. The throat is golden yellow below where the blooms start to flare. This new Petunia is decidedly floriferous and holds its uniform neat habits until late fall. The blooms are about 2 inches in diameter. **Pkt., 25c.**

Flower Seed Novelties

1532 Petunia, First Lady

An exceptionally uniform dwarf Petunia producing large flowers $2\frac{1}{2}$ inches across. Color a blush-pink and one of the clearest pinks in all Petunias, a new shade of light pink. Makes a dwarf bushy small-shaped plant growing about 12 inches high. **Pkt., 25c.**

1533 Petunia, General Washington

A true miniature Petunia growing 6 to 9 inches high spreading to a width of 8 inches. The well-ruffled blooms have large open throats 3 inches or more in diameter. The bell part of the bloom is a rich velvety amaranth-red with a glistening reddish black throat. **Pkt., 20c; 3 for 50c.**

1534 Petunia, Miniature Violet Gem

This variety is a true miniature in every respect, the plants are neat, dwarf and compact. Blooms are just the size you would expect to find on this type of plant, free blooming, producing rich violet-blue blooms in great numbers throughout the season. Foliage dark green, to a height of 6 to 8 inches and will spread 6 to 8 inches. **Pkt., 20c; 3 for 50c.**

1535 Petunia, Miniature Ruffled Betsy Ross

The color is red and white, with the white blending to golden and the red blending to very deep red in the throat. The blooms are $2\frac{1}{2}$ inches in diameter and well ruffled with a good open throat. This color combination gives the individual plant, as well as a row of plants, a decidedly gay effect, particularly since the plants are so uniform and compact and so completely covered with ruffled blooms. **Pkt., 15c; 2 for 25c.**

1536 Petunia "Glow"

A dwarf, compact, ball-shaped variety, of bright rose-red with lighter throat. Extremely free flowering all season, of rich coloring, true and a wonderful variety for the gardener and florist. Awarded Silver Medal, 1939 All-America Trials. **Pkt., 15c; 2 for 25c.**

1537 Salpiglossis, Dwarf Giant Flowering

This new strain of Salpiglossis produces plants that are bushy and compact in habit, growing to a height of 30 to 32 inches. This is about 8 inches shorter than the spreading Emperor type. No vigor has been lost in shortening the plants, as they will survive a hot summer and outlast the old strain. The flowers are formed in a group or cluster at the head of each plant, will range in color from light chamois with wide red stripes spreading starlike from a golden yellow throat, velvety violets, mid-blue with silver veins and many other charming color combinations. Salpiglossis is a half-hardy annual, can be planted early and will last until the middle of summer. **Pkt., 15c.**

1538 Scabiosa, Peace

A companion to Heavenly Blue Scabiosa introduced last year which won the Bronze Medal in the All-America Trials. The flowers are $1\frac{1}{2}$ to 2 inches across, of perfect form, with high-crowned, double flowers. Pure white without any tinge of pink or mauve. The sturdy, vigorous plants grow 2 feet tall. Awarded Honorable Mention All-America Trials, 1940. **Pkt., 25c.**

1539 Scabiosa "Heavenly Blue"

A distinct and lovely azure-blue variety, very early and exceptionally free flowering. Plants 18 inches high, bushy and loaded with rather short but wiry stemmed, high crowned double flowers. Awarded Bronze Medal, 1939 All-America Trials. **Pkt., 15c; 2 for 25c.**



Marigold, Spry

and Specialties for 1941

1540 Larkspur, Giant Imperial Pink King

This variety is a lovely soft, yet vibrant, shade of salmon-rose, the color so much in demand for cut flowers. The fully double 2-inch florets are composed of rounded broad petals which are evenly and closely spaced on the stems, giving that well-known heavy Hollyhock-like cutting spike characteristic of the King type. Cutting spikes will be 24 inches or more in length, the straight stiff stems coming from low on the plants which reach a height of 5½ feet. The basal-branched character gives several fine spikes of bloom on each plant. Pink King is one of the earliest to bloom.

In growing Larkspurs in the garden outside bear in mind that they are cool weather plants and the seed can be sown in the fall from August to November or very early in the spring. **Pkt., 20c; 3 for 50c.**

1541 Larkspur, Empress Shell-Pink

This variety makes bushy compact growth and is sturdy enough to carry its heavy masses of flowers without support. Shell-Pink grows to a height of 36 inches yet will retain that essential graceful appearance always associated with Larkspur. Short lateral branches bearing scores of large double florets enable this variety to be used for cutting. It is best suited for borders or mass work and will become most popular with the home gardener. **Pkt., 20c; 3 for 50c.**

1542 Phlox Gigantea, Rosy Morn

This new variety possesses the large size blooms, the free flowering quality and the fine habit of Gigantea Art Shades and Salmon Glory. If grown with ordinary care the blooms will be larger than a half dollar. An extremely refreshing, gay and bright color combination of rose-pink with a white eye. Somewhat the same color as found in the popular Petunia Rosy Morn except that the rose-pink in the new Phlox is much deeper, providing a color that will not fade in the strong sun. Awarded Bronze Medal All-America Trials 1940. **Pkt., 25c.**

1543 New Giant Crested Howard Zinnia

The illustration on this page tells the tale of this marvelous new strain of Zinnia. They are the result of a direct cross between the smaller flower Scabious-Flowered class and those of the Giant Dahlia-Flowered Section. The blooms average from 4 to 5 inches in diameter with a full rounded cushiony center surrounded by broad guard petals after the style of the Pyrethrum or Painted Daisy. The colors included in this strain are bright and fresh, and contain almost all known colors and shades found in this most popular of annual plants, beautiful shades of orange, orange-scarlet, yellow, rose, maize and crimson predominating. As a cut flower or as an annual for garden borders they are without peer. They will undoubtedly become an important cut flower for home and florist use. It has taken over 10 years of work since the original crosses were made, to perfect the type, and at the present time the flowers will produce 75 per cent true to type. **Pkt., 25c.**

1544 Black Ruby Lilliput Zinnia

A new color in Lilliput Zinnia, a rich blackish maroon. While the color is extremely deep it is by no means dull, for the velvety texture of the petals gives it a very rich appearance. Flowers are double, 1 to 1½ inches in diameter and the same in depth. They are borne on very long, straight and wiry stems so highly prized for cutting. Plants form erect bushes 2 feet tall with a spread of about 1½ feet. **Pkt., 25c.**



Lilliput Zinnia, Black Ruby

Plan Your Vegetable Garden Now!

GARDEN for DEFENSE OF COUNTRY AND HOME



- There can be no reserve of fresh green vegetables except in gardens
- The interruption of the rapid transport of these foods to market next summer, may cause widespread shortage overnight.
- The vital importance of these protective, vitamin rich foods in the diet, especially of children is well established
- You can protect your family, and contribute to national preparedness by growing a large part of the vegetables you need in your own back yard

Be Ready! PLAN AND PLANT EARLY,
FOR WHATEVER MAY COME!

For a complete list of McCullough's Vegetable Seeds with cultural directions, see pages 3 to 21 inclusive.



Zinnia, New Howard Crested



Hulbert Taft Estate, Indian Hill, Cincinnati, Ohio

McCullough's Seeds of Annual Flowers

The life of the true Annual does not extend longer than one season. Itself the product of a seed, the plant produces flowers, ripens its seed and perishes in the same year.

They have many advantages. The seeds of Annuals are inexpensive, the flowers can be enjoyed both by the home renter as well as the home owner. Because of their short period of growth, they can be used to fill up gaps in the Perennial border and to succeed plantings of spring-blooming bulbs, such as Tulips, Hyacinths, etc.

Annuals have a delicate beauty all their own and no plants surpass them in brilliancy for summer display. They furnish material for a whole garden, as well as cut flowers for home decoration.

A succession of bloom may be had by occasional sowing of many sorts, such as Alyssum, Candytuft, Eschscholtzia, Zinnias, etc. In the latitude of Cincinnati, Ohio, these sowings may be made as late as July 1st to 15th. Another method now being used more than ever is the autumn planting of Annual seeds for early spring bloom, such as Cornflowers, Gypsophila, Larkspur, Petunias, etc.

This year we have segregated the flower seeds, placing Annuals in one group, followed by Perennials, Vines and those for greenhouse culture. Consult the index if in doubt.

NOTE: We send out no untested seed and when failure occurs, we invariably find that the seed had been planted too deep or the soil has been permitted to become excessively dry, or the reverse, while germination is taking place.

Seeds of Annuals, unless otherwise noted, should be started indoors in a light, sifted soil with sand and humus or clean leaf-mold added. Water the soil thoroughly and allow to drain and then sow seed thinly in rows. Cover with paper or glass to conserve moisture. Plant out when all danger of frost has passed. Some Annuals may also be sown where they are to flower, the young plants later being thinned out.

All varieties marked with an ® throughout the list of Annual flower seeds are especially suitable for the rock garden.

Ageratum - Floss Flower

One of the best bedding plants, being literally a sheet of bloom from early summer till frost. Easily raised from seed started in a hotbed and in May transferred to the garden, 4 to 6 inches apart. Can also be sown outdoors in May.

®401 **BLUE BALL.** The plants are compact and about 4 inches high. Growth uniform and even, broad green foliage with flowers of a rich shade of blue. Pkt., 15c; 1/16 oz., 25c.

®402 **DWARF BLUE CAP.** This is by far the best all around dwarf Ageratum yet produced. The plants are tiny mounds of flowers, which are large and compact and a deep rich blue. The foliage is small and inconspicuous, so the effect is that of a solid mass of flowers, making a narrow ribbon of color around a flower border. Pkt., 15c.

403 **BLUE PERFECTION.** Large heads of deep blue flowers in abundance. Fine for cutting. Height 12 inches. 1/8 oz., 25c; pkt., 10c.

®404 **FAIRY PINK.** A dwarf compact Ageratum of a delightful soft salmon-rose-pink color. Height, 5 inches. Pkt., 15c.

MIDGET BLUE. See novelty page 22.

Alyssum

A fragrant edging plant with small, white flowers in great profusion throughout the summer and autumn. Useful for borders and window-boxes. For Alyssum saxatile see Perennial List.

®405 **CARPET OF SNOW.** Of creeping habit, forming a dense carpet of beautiful white flowers. Height, 4 inches. 1/4 oz., 25c; pkt., 10c.

®406 **TOM THUMB (Little Gem).** A splendid sort for edges, borders or rock work. Height, about 6 inches. A compact mass of bloom 12 to 15 inches across. 1/4 oz., 25c; 1 oz., 75c; pkt., 10c.

407 **SWEET.** Height, about 8 to 10 inches but spreading. Oz., 25c; pkt., 10c.

VIOLET QUEEN. See novelty page 22.

SAXATILE COMPACTUM. See perennial page 43.

Amaranthus

Effective plants because of their brilliantly colored foliage. Flowers are interesting. Best in sunny positions on rather poor soil.

408 **MOLTEN FIRE.** Brilliant Poinsettia-like tips. Pkt., 10c.

409 **TRICOLOR (Joseph's Coat).** 2 1/2 ft. The inner foliage is of blackest bronze, tipped with green, the outer bright scarlet and gold. Pkt., 10c.

Anchusa

410 **BLUE BIRD.** A dwarf compact type, 18 inches high, with indigo-blue blossoms. Blooms freely during late spring and summer. 1/4 oz., 25c; pkt., 10c. For Anchusa Italica see Perennial List, page 43.

PLEASE NOTE: All 10c pkts., 1/2 pkts. for 25c. All 15c packets, 2 pkts. for 25c. All 20c pkts., 3 pkts. for 50c. All 25c pkts., 1/2 pkts. for 65c. All 35c pkts., 3 pkts. for \$1.00.

WHEN ORDERING, SEE PAGE 64 OF THIS CATALOG.

Gorgeous Snapdragons

(Antirrhinum)

Snapdragons have been amazingly improved in size and color. They are hardy and should be sown early, as they germinate slowly. Unless very rich soil is provided and all plants are staked, the dwarf and semi-tall class will be most satisfactory in the garden. They are effective in beds of solid color, and require full sun. Keep seed pods picked off. If intended for winter flowering, cut back in September.

Rust-Resistant Snapdragons

The introduction of the New *Rust-Proof Snapdragon should be welcome news to the gardener who finds the Snapdragon among his garden favorites.

It will be a joy to see these plants with their clean healthy foliage free from rust. *Rust is that disease which causes a burned or blighted appearance on the foliage.

Rust-Resistant Super Majestic Snapdragons

A superb mixture of Majestic Snapdragons containing a fine range of color. This mixture contains many rare and new colors in Snapdragons that have not been introduced to date. This new group is superb ■ a cut flower, for bedding and all other purposes in the garden.

411 Mixed. Pkt., 15c; 1/8 oz., 40c.

Antirrhinum Rust-Resistant Maximum

In habit these are tall and the individual flowers are very large. Approximately 3 feet high.

412 ALASKA (Snowflake). Pure white.

413 CAMPFIRE. Luminous scarlet.

414 CANARY BIRD. Canary-yellow.

415 COPPER KING. Copper-orange to gold.

416 LOVELINESS. Soft rose-pink.

417 RED CROSS. Crimson, with white tube.

418 ROSALIE. Rich deep rose toned topaz or amber.

419 SWING TIME. Rose-pink.

420 YELLOW GIANT. Deep yellow.

Any of the above Maximum varieties: Pkt., 15c; 1/8 oz., 40c.

421 MAXIMUM MIXED. Pkt., 15c; 1/8 oz., 35c.

Antirrhinum Rust-Resistant Majus Grandiflorum

Approximately 2 feet high.

422 MIXED. All shades. Pkt., 15c; 1/8 oz., 40c.

Antirrhinum Rust-Resistant Nanum Grandiflorum

Approximately 1-1 1/2 feet high.

423 ANTIQUE GOLD. Shades of old gold, copper, fawn and orange.

424 BUMBLE BEE. Crimson.

425 CARMINE ROSE. Uniform, bright carmine-rose.

DU BARRY. See novelty page 22.

426 INDIAN GIRL. Beautiful old gold.

427 RED BOY. Rich deep scarlet.

428 WILDFIRE. Bright orange-scarlet.

Any of the above Nanum Grandiflorum varieties. Pkt., 10c; 1/8 oz., 25c.

429 NANUM GRANDIFLORUM MIXED. Pkt., 10c; 1/8 oz., 50c.

430 ANTIRRHINUM UNIVERSITY OF CALIFORNIA MIXTURE. An excellent mixture of rust-proof Antirrhinums similar to the Majus Grandiflorum, containing a range of popular colors. Winner of certificate of honor in 1935. All-America selection. Pkt., 10c; 1/8 oz., 25c.

PLEASE NOTE

All 10c packets, 3 pkts. for... \$0.25
All 15c packets, 2 pkts. for... .25
All 20c packets, 1 pkt. for... .50
All 25c packets, 3 pkts. for... .65
All 35c packets, 3 pkts. for... 1.00

Semesan
or
Formacide
Insures Good
Seed
Germination
See Page 61



Majestic Snapdragons

Arctotis

(Blue-eyed African Daisy)

431 GRANDIS. Forms much branched bushes 2 to 3 feet high; its flowers are large and showy, being pure white on the upper surface, the reverse of petals, pale lilac-blue; blooms early in July and continues until hard frost. It delights in a sunny situation. Half-hardy annual. 1/4 oz., 25c; pkt., 10c.

432 ARCTOTIS HYBRIDS. These new hybrids include such lovely shades as pink, red, purple, violet, yellow and orange, all showing the characteristic blue center. Pkt., 15c.

Five Rust-Resistant Snapdragons

This collection contains 1 packet each: Loveliness, Red Cross, Copper King, Canary Bird, Alaska, (value 75c), for 50c.

AQUILEGIA OR COLUMBINE. See perennial seeds. Page 44.

GREENHOUSE FORCING SNAPDRAGONS

For Winter and Early Spring Flowering

AFTERGLOW. Attractive deep golden bronze. Pkt., \$1.00.

BERTHA BAUB. Standard lavender. Pkt., \$1.00.

CELESTIAL. A long stemmed light yellow. Pkt. \$1.00.

CHEVIOT MAID SUPREME. Standard pink. Pkt., \$1.00.

CHEVIOT MAID YELLOW. Good stem and bright color. Per pkt., \$1.00.

ETHEL. Deep yellow, exceptionally early. Pkt., \$1.50.

LUCKY STRIKE IMPROVED. White. Pkt., \$1.50.

MARION. White, good habit and fairly early. Pkt., \$1.50.

NEW CINCINNATI. A medium deep rose. Pkt., \$1.00.

PEGGY SCHUMANN. Rose-pink, full spikes. Pkt., \$2.00.

ROSE QUEEN. Deep rose. Pkt., \$1.00.

SCHUMANN'S LAVENDER. A fine lavender for spring. Pkt., \$2.00.

SCHUMANN'S YELLOW. Quite early. Pkt., \$2.00.

SUNTAN. Early-flowering bronze. Pkt., \$1.00.

SUNRAY. Early. A deep bright yellow; extra long spikes. Pkt., \$2.00.

Three \$1.00 pkts. for \$2.50.

ALL 10c PACKETS ARE 3 FOR 25c; ALL 15c PACKETS ARE 2 FOR 25c—When ordering see page 64 of this catalog.



Wilt-Resistant Aster, Golden Sheaf



Sunshine Aster



Crego Aster

McCULLOUGH'S ASTERS—New Types and Wilt-Resistant Strains

Asters are the glory of our gardens in August and September, just when good flowers for cutting and garden display are wanted. To cut Asters abundantly as long as possible, several sowings should be made of the early and late flowering types. To succeed with Asters, sow the seed in flats in the house or hotbed in March. Transplant the seedlings two inches apart in boxes, and when they are large enough to handle, move to permanent beds in May. Make the second sowing in the cold frame the latter part of April, and the third sowing in the open ground about May. Set the plants of the early varieties ten inches apart, and of the later varieties eighteen inches apart. The richer the ground, the better your flowers will be, and water is very necessary.

SPECIAL NOTE.—While this lovely fall flower is very easily grown from seed, the greatest possible care should be exercised with the seed-bed. Old soil and boxes should never be used the second time without thoroughly sterilizing, to avoid the numerous diseases to which Asters are susceptible. Barnyard manure should never be employed as a fertilizer; we recommend the use of fine ground bonemeal. Asters should not be grown in the same location two years in succession. Treat soil with Formicide. See page 61.

Early Giant Wilt-Resistant Aster

Finest large-flowered, heavy-stemmed, wilt-resistant Aster yet developed. Flowers are of the large Giants of California type while the plants are less than 2 feet in height. This class is early blooming, coming into flower 4 to 6 weeks earlier than Giants of California, blooming during early or mid-August.

433 LIGHT BLUE. Large, lacy flowers. Pkt., 15c.

434 PEACH BLOSSOM. Opens white, flushes lavender-pink. Pkt., 15c.

435 ROSE MARIE. Lively shade of rose-pink. Pkt., 20c.

Lilliput or Button Aster

Produces an abundance of small flat-topped double flowers on 12- to 14-inch plants. Very attractive both for cutting or for potted plants.

436 FINEST MIXED. All shades. Pkt. 15c; $\frac{1}{2}$ oz., 40c; $\frac{1}{4}$ oz., 75c.

Aster (Wilt-Resistant) Golden Sheaf

450 GOLDEN SHEAF. Is the deepest yellow Aster yet offered, and the only one that is wilt-resistant. The flowers are fully double with an attractive crest-like center, of good substance and fine depth of petal. Pkt., 15c.

YOU TOO . . . CAN HAVE A BEAUTIFUL LAWN!

(See Inside Front Cover)

New Aster Giant California Sunshine

We now offer delightful new colors as well as the mixture in the popular Aster Giant California Sunshine group. These plants grow three feet high and bear blossoms five and six inches across on long stiff stems.

The dual-tone color effects formed by the quilled disc and the encircling guard petals are lovely beyond description.

437 ALFENGLOW. Purple, yellow center.

438 BLUE MOON. Blue, yellow center.

439 MOONBEAM. White, orange center.

440 RAINBOW. Rose-pink, orange center.

441 SHELL PINK. With white and lemon center.

442 STRATOSPHERE. Dark blue with orange center.

PRICE: Any of the above, pkt., 20c; 3 for 50c.

443 GIANT CALIFORNIA SUNSHINE MIXED. All colors. Pkt., 15c.

California Giant Asters

A new variety of the Crego type, with the robust habit of growth and long stems of the Beauty type. The flowers are much larger and more substantial than the Improved Crego. They measure 5 to 6 inches in diameter and stand up well when shipped as cut flowers. Their immense size and beauty, as well as their long and sturdy stems, make them very attractive.

444 WHITE.

445 PEACH BLOSSOM.

446 LIGHT BLUE.

447 DEEP ROSE.

448 DARK PURPLE.

Price: Any of the above, pkt., 15c; $\frac{1}{2}$ oz., 50c.

449 MIXED COLORS. $\frac{1}{2}$ oz., 40c; pkt., 15c.

2449 COLLECTION. One pkt. each, above 5 colors, 60c.

Heart of France Asters

451 Brilliant dark red flowers similar to the American Branching in type. Highly wilt resistant. Blooming on strong stems in later August or September. Height, 2 feet. $\frac{1}{2}$ oz., 50c; pkt., 15c.

Wilt-Resistant Asters

Wilt-resistant Asters will successfully solve your past difficulty in growing these beautiful fall flowers. Many gardeners have had to abandon all attempt to grow Asters because of wilt. No practical wilt control has yet been discovered. The following highly resistant strains have been developed from plants which through several years of production under severe wilt conditions, have survived untouched. The resultant seed now makes possible perfect fall displays of this popular Annual.

Wilt-Resistant Early Royal Asters

452 AZURE BLUE. $\frac{1}{2}$ oz., 30c; pkt., 10c.

453 DEEP ROSE. $\frac{1}{2}$ oz., 30c; pkt., 10c.

454 PEACH BLOSSOM. $\frac{1}{2}$ oz., 30c; pkt., 10c.

455 PURPLE. $\frac{1}{2}$ oz., 30c; pkt., 10c.

456 WHITE. $\frac{1}{2}$ oz., 30c; pkt., 10c.

457 FINEST MIXED. $\frac{1}{2}$ oz., 25c; pkt., 10c.

Wilt-Resistant Crego Asters

458 ORCHID. $\frac{1}{2}$ oz., 30c; pkt., 10c.

459 CRIMSON. $\frac{1}{2}$ oz., 30c; pkt., 10c.

460 DEEP ROSE. $\frac{1}{2}$ oz., 30c; pkt., 10c.

461 ENCHANTRESS. Salmon-rose. $\frac{1}{2}$ oz., 30c; pkt., 10c.

462 PEACH BLOSSOM. $\frac{1}{2}$ oz., 30c; pkt., 10c.

463 PINK. $\frac{1}{2}$ oz., 30c; pkt., 10c.

464 PURPLE. $\frac{1}{2}$ oz., 30c; pkt., 10c.

465 WHITE. $\frac{1}{2}$ oz., 30c; pkt., 10c.

466 FINEST MIXED. $\frac{1}{2}$ oz., 25c; pkt., 10c.

PERENNIAL ASTERS. See page 44.

ALL 10c PACKETS ARE 3 FOR 25c; ALL 15c PACKETS ARE 2 FOR 25c—When ordering see page 64 of this catalog.



NEW BUSH BALSAM

(Gardenia Flowered)

Unlike the taller growing Balsams, the flowers of the little bush type are carried at the tips of the stems, rather than on the side of the stems, making a show of color rather than of foliage. The plants are 8 to 10 inches in height, very compact and literally covered with their double flowers.

- 467 Torch.** A penetrating vermilion-red; very showy. **Pkt., 20c; 3 for 50c.**
468 PINK. **Pkt., 20c; 3 for 50c.**
469 WHITE. **Pkt., 20c; 3 for 50c.**
470 MIXED. **Pkt., 15c; ½ oz., 50c.**

Balsam - Lady's Slipper

An old-fashioned flower which is generally popular in all gardens. It bears flowers of various shades, white, pink, red, yellow, purple, etc., some of which are beautifully striped and spotted. Hardy annual.

- 471 DOUBLE MIXED.** ¼ oz., 25c; **pkt., 10c.**

BACHELOR'S BUTTON. See Centaurea.

BALSAM APPLE. See page 51.

BALSAM PEAR. See page 51.

Bartonia Blazing Star or Gold Star

- 472 AUREA.** A free-blooming and showy hardy annual with large yellow flowers. The foliage is gray and thistle-like, and is exceedingly brilliant in the sunshine. Thrives in a sunny situation even in poor soil. Should be sown where intended to bloom as it does not transplant well. Height 18 inches. **Pkt., 10c; ¼ oz., 25c.**

Begonia Everblooming Bedding Varieties

The small, bright flowers are borne in great profusion from summer to autumn. Spring seedlings bloom in summer while summer seedlings make fine house plants for the winter.

- 473 CHRISTMAS CHEER.** Red, ever-blooming, with enormous, rich bright cherry-red flowers, often 2 inches in diameter. **Pkt., 25c.**
474 SEMPERFLORENS, SALMON QUEEN. Very attractive new variety with large, salmon-colored blossoms and dark foliage. 5 pkts., \$1.00; **pkt., 25c.**

BLUE LACE FLOWER. See Didiscus. Page 31.

BROWALLIA. Beautiful rich blue tubular flowers during the summer and autumn. Thrives best in partial shade. Blooms well in winter if the plants are lifted in the autumn and cut back. Height 1½ feet.

- 475 ALATA SNY BLUE.** **Pkt., 10c; ½ oz., 20c.**

CALENDULA—Pot Marigold

Easily raised, flower quickly from seed, and bloom without interruption until hard frost. Sow where they are wanted, 2 to 3 seeds together, 12 inches apart, pull out the weakest, leave but 1 plant to grow; or start seed in hotbed in March or April and transplant outdoors in May. Frequently used for winter blooming under glass. Height 12 to 18 inches.

- 477 ORANGE SHAGGY.** Florets overlap flowers, resemble Chrysanthemums. Deep orange. Height 18 inches. **Pkt., 10c; ¼ oz., 20c.**

- 478 LEMON SHAGGY.** Flowers same as Orange Shaggy but of a live lemon-yellow. **Pkt., 10c; ¼ oz., 20c.**

- 479 ORANGE FANTASY.** Outer petals long and beautifully twisted; inner petals are short, curled and interlaced. Center of flower mahogany-bronze. Height 15 in. **Pkt., 10c; ¼ oz., 20c.**

- 480 ORANGE KING.** Beautiful rich orange. Full double flowers, borne abundantly throughout the season. **Oz., 25c; pkt., 10c.**

- 481 DOUBLE ART SHADES.** Contains many tones and shades not previously obtainable — delicate apricots, beautiful picotees, orange shades, cream tones—every conceivable tint from pure white through cream and buff to yellow and deep orange. ½ oz., 25c; **pkt., 10c.**

- 482 BALL'S ORANGE.** Bright orange flowers, very large, with long stems, uniformly double. A favorite on the cut-flower market. ¼ oz., 35c; **pkt., 15c.**

- 483 CAMPFIRE.** (Sensation.) Extremely large flowers, carried on long stout stems. The color is a brilliant orange with a scarlet sheen and a full yellow center. ¼ oz., 35c; **pkt., 15c.**

- 484 LEMON QUEEN.** Rich lemon-yellow. **Oz., 25c; pkt., 10c.**

- 485 MIXED.** All sorts mixed. **Oz., 25c; pkt., 10c.**

THE BOOK OF GARDEN MAGIC

A real notebook for a real gardener, sturdy water-proof cover—loose-leaf pages, clear practical illustrations—make this the most useful garden book yet published. **\$3.50.**

Brachycome Swan River Daisy

- 476 IBERIDIFOLIA.** Mixed. One of the daintiest and most charming little annual flowers imaginable and easy to grow in any soil. The flowers are borne on graceful stems well above the delicate, finely lacinated foliage. They are ideal for low beds and borders, as the plants grow to a height of only 8 to 10 inches. ½ oz., 25c; **pkt., 10c.**

COREOPSIS (Perennial Calliopsis). See page 45.

CALIFORNIA POPPY. See Eschscholtzia, page 32.

CAMPANULA (Canterbury Bells). See page 45.

Gay Calliopsis

One of the best annuals for beds or borders, producing attractive and graceful flowers on long stems which are most effective and artistic for decoration. They commence blooming early and continue until early fall. Seeds are usually sown outdoors where they are to bloom but can be sown inside and transplanted.

- 486 DAZZLER.** Flowers have a rich maroon-red center, with broad golden yellow border. Height, 12 inches. **Pkt., 10c.**

- 487 GOLDEN CROWN.** Enlarged orange-yellow or gold; many of the large blossoms have extra rows of petals. Excellent cut flowers; fragrant. **Pkt., 15c.**

- 488 DWARF VARIETIES.** Mixed. Valuable for small mixed beds and borders. ¼ oz., 25c; **pkt., 10c.**

- 489 TALL MIXED.** A splendid mixture comprising many varieties and a great range of colors. ¼ oz., 25c; **pkt., 10c.**

PERENNIAL COREOPSIS. See page 45.

CARDINAL CLIMBER. See page 51.

CYPRESS VINE. See page 51.

Canna - Indian Shot

Cannas can be successfully grown from seed if planted early. Pour boiling hot water over the seeds, soak for 24 hours. Plant in sand ¼ to ½ inch deep. The seed will germinate in 2 to 4 weeks.

- 490 MIXTURE OF NEWEST NAMED VARIETIES.** **Pkt., 15c.**



Calendula, "Orange Fantasy"

New Annual Canterbury Bells

Bring Spring to the Garden in September Annual Canterbury Bells will flower in less than six months from seed, will grow two and one-half feet tall, producing six to eight flowering spikes to the plant.

- 491 MIXED COLORS.** **Pkt., 15c.**

Cuphea

- 492 FIREFLY.** A welcome newcomer. Firefly has all the characteristics needed in a dwarf, compact plant. The flowers are small and delicately formed, fiery cerise-red in color, and are freely produced on compact plants which reach a height of about 10 inches. The general effect of a plant when in full bloom is a ball of fire, recommending itself at once for the rockery, window boxes, flower pots or for the border or to be used for edging. An annual blooming in 10 to 12 weeks from seed and will bloom profusely throughout the summer months. **Pkt., 15c; ½ oz., 35c.**



Centaurea, Jubilee Gem

CENTAUREA

Sow outdoors in April, thin plants to stand ten inches apart, or you may sow seed from September to November for early bloom the following spring.

Double Flowering Varieties. 2 ft.

- 508 **BLUE BOY.** Blue. 510 **PINKIE.** Deep pink.
 509 **BLACK BOY.** Blackish maroon. 511 **RED BOY.** Deep red.
 512 **SNOW MAN.** White.

Price: Any of the above. Pkt., 10c; ¼ oz., 25c.

- 513 **DOUBLE MIXED.** Pkt., 10c; ¼ oz., 20c; oz., 50c.
 514 **JUBILEE GEM.** Jubilee Gem is a dwarf variety of Cornflower making a compact plant literally covered with flowers. It has foliage distinct from all other Cornflowers, forming a tufted mass of vivid green, contrasting well with the dark but vivid double blue flowers. The plant is about 12 inches in height. Pkt., 15c; ¼ oz., 25c.
 515 **LILAC LADY.** Habits same as Jubilee Gem offered above, except the color which is a bright lilac-mauve. Pkt., 25c.

Centaurea Imperialis - Royal Sweet Sultan

516 **FINEST MIXED.** A wonderful annual for cutting. Long-stemmed, exquisitely fringed and delightfully fragrant. 2 to 3 feet. May until frost. ¼ oz. 20c; pkt., 10c.

White-Leaved (Dusty Miller)

517 **CANDISSIMA.** Thick silvery white leaves, sow early. Height 10 inches. Pkt., 10c; ¼ oz., 25c.

Candytuft for Mass Planting

Showy branching plant, fine for edgings, bedding, massing, rockeries or for cutting. For early blooms, sow seed inside in March, making successive sowing outdoors any time from May to July. They thrive in rich soil and should be watered freely.

Hyacinth-Flowered Types

- ®493 **MINIATURE GEM.** A dainty, miniature hyacinth-flowered annual Candytuft about 3½ inches high, each plant producing 4- to 6-inch spikes of pure white flowers. A perfect miniature gem for the rock garden. Pkt., 10c.
 494 **GIANT HYACINTH-FLOWERED or IMPROVED EMPRESS.** A wonderfully improved strain of the popular Empress Candytuft, forming much branched plants about 18 inches high. Makes a very effective white bed or border and is invaluable for cutting. ¼ oz., 25c; oz., 60c; pkt., 10c.

Clarkia

This pretty and easily grown annual has been much improved in recent years, and the mixture offered below is now seen as cut flowers in most of the large cities of Europe. They do well either in sun or shade, growing 2 to 2½ feet high, with leafy racemes of double flowers, which all open in water when cut.

522 **ELEGANS DOUBLE MIXED.** ¼ oz., 25c; pkt., 10c.

Umbellata Types

- Umbellata sorts grow about one foot high, with flowers in umbrella form.
 495 **ROSE CARDINAL.** Bright carmine-rose. ¼ oz., 25c; pkt., 10c.
 496 **FLESH-PINK.** Light pink. ¼ oz., 25c; pkt., 10c.
 497 **CRIMSON.** Rich deep shade. ¼ oz., 25c; pkt., 10c.
 498 **LAVENDER.** Delicate shade of rosy lavender. ¼ oz., 25c; pkt., 10c.
 499 **FINEST MIXED.** Comprising all colors and shades. ½ oz., 25c; oz., 40c; pkt., 10c.
PERENNIAL CANDYTUFT. See Iberis, page 48.

Cleome - Spider Plant

523 **PUNGENS.** A showy garden annual with curious flower heads of bright rose; easy cultivation, blooming until late. Height, 4-5 ft. ¼ oz., 30c; pkt., 10c.

Coleus - Flame Nettle

Fine colored, tender perennial foliage plant for house or garden. Sow indoors in March.

524 **FINEST MIXED COLORS.** 3 pkts., 50c; pkt., 20c.

COLUMBINE. See Aquilegia, page 44.

CARNATION

500 **ENFANT DE NICE MIXTURE.** These are the result of a cross between Carnation Chabaud's Giant Improved and Carnation Perpetual. The plants are of robust, upright habit, with long, strong stalks bearing flowers 2½ to 3 inches in diameter. This strain is magnificent. About 90% of the plants come double. Pkt., 15c.

501 **MARGUERITE.** A very early blooming sort which sometimes blooms in four months from sowing. Flowers are large, double, deeply fringed, very fragrant. Plants semi-dwarf, good for bedding and desirable for cutting. Annual. Finest mixed colors. ¼ oz., 25c; pkt., 10c.

Celosia Cristata Nana - Cockscomb

A free bloomer growing best in rather light, not too rich soil. Sow seeds indoors in early spring and plant outdoors in May, or sow seed outdoors in May.

502 **GLASGOW PRIZE.** Dwarf crimson. Pkt., 10c.

503 **DWARF GOLDEN YELLOW.** Pkt., 10c.

Celosia Childsi - Chinese Woolflower

504 **MIXTURE.** A distinct type, with large, roundish head and drooping spikelets of flowers which look like an immense ball of wool. All colors. Very showy. Pkt., 10c.

Celosia Plumosa, Heatherdell

A splendid early flowering, Dwarf Compact Celosia forming bushy plants 12 to 15 inches high.

505 **FIERY FEATHER.** Bright fiery scarlet. Pkt., 15c.

506 **GOLDEN FEATHER.** Yellow. Pkt., 15c.

507 **EXHIBITION MIXTURE.** Many fine new shades. Pkt., 15c.



Chrysanthemum, Single Golden Glory

Chrysanthemum

518 **SINGLE GOLDEN GLORY.** Large perfectly formed flowers measuring 3 to 4 inches across, of deep canary-yellow, produced on 2-foot stems. The attractiveness of Golden Glory is further increased in that the central disc is the same color as the petals. A very free-flowering annual. Height 3 feet. Pkt., 10c.

519 **GOLDEN CROWN.** Golden Crown is a hardy annual, having a very robust constitution, making vigorous well-branched plants 3 to 4 feet in height. The flowers are produced so freely that one plant will carry as many as 50 to 60 blooms. The foliage is of an attractive silvery green, contrasting with the bright double butter-yellow flowers. The most outstanding feature of this novelty is the formation of the flowers. The petals are quilled, which has a beautifying effect. Pkt., 15c; 2 for 25c.

520 **SINGLE MIXED.** A splendid mixture, including many fine colors. Pkt., 10c.

521 **DOUBLE MIXED.** Lovely double flowers; shades of yellow and white. Pkt., 10c.

Cosmos for Early Autumn Color

Graceful autumn flowers, fine for cutting and extremely showy in the garden. Very easily grown. They do best in rather poor soil.

Magnificent New Cosmos Extra Early Sensation

The flowers of this strain are mammoth in size, 4 to 5 inches in diameter, with broad, heavy fluted petals carried on very long strong stems. It is extremely early flowering, blooming in 10 weeks from the time of seeding. The plants make a rather heavy growth of foliage, reach a height of about 4 feet, are free blooming, and while the flowers are unusually large at all times, plants may be disbudded for even larger flowers for the cut flower trade.

- 525 **CARDINAL**. Crimson. Pkt., 15c; ½ oz., 50c.
526 **PINKIE**. Clear rose-pink. Pkt., 15c; ½ oz., 30c.
527 **PURITY**. Pure white, yellow center. Pkt., 15c; ½ oz., 30c.
528 **MIXED COLORS**. Pkt., 10c; ¼ oz., 30c.

Tall Late Mammoth Flowering

- 529 **GIANT WHITE**. ¼ oz., 25c; pkt., 10c.
530 **GIANT CRIMSON**. ¼ oz., 25c; pkt., 10c.
531 **PINK LADY LENOX**. A beautiful shade of shell-pink, early blooming and very large flowers. ¼ oz., 25c; pkt., 10c.
532 **GIANT MIXED**. Comprises all shades. ¼ oz., 20c; pkt., 10c.

Early Dwarf, Double Crested Cosmos

These grow to a height of about 3 feet, forming a perfect bush, massed with blooms bearing beautiful flowers of good size, on long stems, about 65 per cent with double crested flowers.

- 533 **CARNELIA**. Crimson. Pkt., 25c.
534 **PEACH BLOSSOM**. Pink. Pkt., 25c.
535 **WHIRLWIND**. White. Pkt., 25c.
536 **CHOICE MIXTURE**. Pkt., 20c.
537 **EARLY ORANGE FLARE**. Height 2½ ft. Orange flowers. The stems are long and wiry, well adapted for cutting. Pkt., 10c; ¼ oz., 25c.

Cynoglossum - Chinese Forget-Me-Not

- 538 **AMABILE, BLUE**. An annual recently introduced from China; of the easiest culture, forming strong plants 18 to 24 inches high and producing through the summer months sprays of intense blue Forget-me-not flowers, delicately sweet scented. A splendid addition to the comparatively short list of real blue flowers. ¼ oz., 25c; pkt., 10c.

- 539 **AMABILE PINK**. ½ oz., 25c; pkt., 10c.

FIRMAMENT. See novelty page 23.

CALIFORNIA POPPY. See Eschscholtzia, page 32.

Grow Dahlias from Seed

While usually grown from roots and cuttings, fine flowers can be produced in one season from seed, if it is sown early indoors and the plants set out when the ground is warm.

- 540 **COMDES SELECTED MIXTURE**. This splendid mixture of large flowering Dahlias is grown by one of California's leading hybridists. This Dahlia specialist has introduced several of America's best Dahlias. From this mixture that we offer some of the leading certificate Dahlias have been grown. Pkt., containing 20 seeds, \$1.00; large pkt., containing 100 seeds, \$4.00.

- 541 **ADVANCE**. Special strain of large-flowering Dahlias. Pkt., 40c.

- 542 **UNWIN'S DWARF HYBRIDS**. This is a beautiful strain bearing semi-double flowers with an excellent range of color including pink, lavender, red, orange, yellow and maroon. From seed sown in the spring, plants begin flowering in the summer and improve until killed by frost. They grow 2 to 3 feet tall, and abundant flowers cover them. Tubers are produced which can be saved for the next year. They make good pot plants when pinched back. Pkt., 20c.

- 543 **DAHLIA, ZULU STRAIN**. These are black leaved dwarf double hybrids, with flowers of various shades of crimson and scarlet, lightened by a few orange golden and lilac blooms. The plants are compact but vigorous, each flower borne on a very strong straight stem. A very effective bedding strain. Pkt., 20c.

FOR DAHLIA ROOTS. (See Summer Flowering bulbs, page 55).

Dianthus - Annual Garden Pinks

Every garden should include some of the pinks because they are so easily grown and make such a wonderful display with their bright colored flowers. The plants are covered with sweet scented flowers all during the summer. Grows about one foot high.

- 544 **LACINIATUS SPLENDENS**. A free-flowering, easily grown annual. The flowers are very large, over 2 inches across, in a brilliant shade of crimson, with a large boldly contrasting glistening white eye. Pkt., 10c.

- 545 **SWEET WIVELSFIELD**. This remarkable hybrid is quite distinct in method of flowering and height of growth from the Annual Sweet William. It has a great variety of color and a very long season of bloom. It is an annual, and requires the same culture as Asters, Stocks and Snapdragons. Sown in a hot-bed in February and March, and then into the open ground early in May, it will bloom from June until frost. If sown outdoors in April, it will bloom in August. Pkt., 10c.

- 546 **HEDDEWIGI**. (Single Pink.) A splendid mixture of single flowers of brilliant shades, brilliantly marked. Plants dwarf and very free flowering. ¼ oz., 25c; pkt., 10c.

- 547 **HEDDEWIGI, FL. FL.** (Double Pink.) Very double, with deep fringed petals. Colors vary from white to rose, lilac, carmine, crimson, scarlet, purple, brown and almost black, spotted and striped. Pkt., 10c; ¼ oz., 30c.

For Perennial varieties, see page 47.



Dimorphotheca—African Daisy

Didiscus - Blue Lace Flower

- 548 **COERULEUS**. Superb for cut flowers. The long stems terminate in flat clusters of delicate blue flowers not unlike Queen Anne's Lace. ½ oz., 30c; pkt., 10c.

Dimorphotheca

New African Golden Daisies

Most of us know the African Daisies, sometimes called the Star of the Veldt, and have admired their bright blossoms which appear in daisy-like form 2 to 3 inches across. A showy effect is obtained by using mixed colors of African Daisies, and the dark shades of Bedding Petunias, sowing the seed broadcast or setting out the plants informally, giving the appearance of being broadcast. Delights in a sunny situation.

- 549 **SALMON BEAUTY**. A large flowering African Daisy of a pleasing true salmon shade, a welcome color addition to this popular flower group. ½ oz., 40c; pkt., 10c.

- 550 **AURANTIACA**. Golden orange, with dark center. ½ oz., 25c; pkt., 10c.

- 551 **MIXED COLORS**. Varying in colors of white, yellow, salmon and orange. ½ oz., 35c; pkt., 10c.

Daisies

Blue-Eyed African Daisy. See Arctotis, page 27.

English Daisy. See Bellis Perennis. Perennial page 45.

Golden African Daisy. Dimorphotheca. See above.

Shasta Daisy. See Chrysanthemum. Perennial page 46.

Marguerite Daisy. See Anthemis. Perennial page 43.

Michaelmas Daisy. See Perennial Asters, page 44.

Transvaal Daisy. See Gerbera. Perennial page 47.

Digitals. See Perennial page 46.

Delphinium, Annual. See Larkspur, page 33.

Delphinium, Perennial. See page 46.

SOW
ACME SUPERFINE
LAWN SEED 98½% Pure
(See inside Front Cover)



Gaillardia, Indian Chief

Eschscholtzia (CALIFORNIA POPPY)

Easily grown from seed sown outdoors where they are to grow as they cannot be transplanted. They succeed everywhere, are always in bloom, brighten the garden from June until frost. Autumn sowing outdoors gives you early spring flowers.

552 MONARCH ART SHADES. A compact strain of large-flowering California Poppies in a mixture which carries its flowers well above the foliage, ideal for bedding. Each bloom is large, semi-double and well formed. The colors range through light rose to deep rose and carmine, and from deep golden yellow to orange and scarlet. Foliage neatly feathered. **Pkt., 15c.**

553 DOUBLE GOLDEN GLORY. Golden Glory, with its glorious profusion of golden yellow flowers deepened at the center with orange, is indeed the brightest and showiest of all Eschscholtzias, the glory of the garden. **Pkt., 10c.**

554 SALMON BEAUTY. Beautiful double salmon, not variable. This novelty introduced for the first time last year, is salmon both inside and out. Very distinct. **Pkt., 10c; ¼ oz., 30c.**

555 SCARLET BEAUTY. Deep scarlet. **¼ oz., 25c; pkt., 10c.**

556 GOLDEN WEST. A very large, bright yellow sort with deep orange at the base of petals. **Oz., 30c; pkt., 10c.**

557 DOUBLE AND SEMI-DOUBLE VARIETIES. Mixed. **¼ oz., 35c; pkt., 10c.**

558 SINGLE VARIETIES. Mixed. **Oz., 30c; pkt., 10c.**

Gilia - Queen Anne's Thimble

A new subject for cut flower use. A very easily grown, attractive annual. The plants are neat, upright and semi-compact in habit, 12 to 15 inches high, covered with dozens of the dainty single flaxlike flowers which are borne on long stems.

567 BUNCH OF LILAC. Clear lavender-blue. **Pkt., 10c.**

Gaillardia - Blanket Flower

One of the most profuse blooming annuals in the flower garden. Excellent for cutting as well as for beds and borders. Blooms continually from early summer until frost. Grows best in full sunlight. Height 12 to 15 inches.

563 INDIAN CHIEF. Single; brilliant bronzy red. **Pkt., 10c; ¼ oz., 25c.**

564 DOUBLE MIXED. **Pkt., 10c; ¼ oz., 25c.**

565 SINGLE MIXED. **Pkt., 10c; ¼ oz., 25c.**

PERENNIAL GAILLARDIA. See page 47.

Euphorbia

Strong-growing annuals, suitable for beds of tall-growing plants or mixed borders. The foliage is exceedingly ornamental. Sow outdoors in April.

559 HETEROPHYLLA. (Annual Poinsettia; Mexican Fire Plant). An annual, bushy plant, with highly ornamental leaves, which in summer and autumn become dark fiery scarlet. Height 2 to 3 feet. **¼ oz., 25c; pkt., 10c.**

560 VARIEGATA. (Snow-on-the-Mountain). Elegant, bushy plants, with broad green leaves, veined and margined with white. Attractive foliage. Height 1 feet. **¼ oz., 25c; pkt., 10c.**

Feverfew - Matricaria

561 DOUBLE MIXED. Hardy annual, free-flowering. For bedding or pot culture. Showy double white and yellow flowers. 18 inches. **Pkt., 10c.**

Kochia Mexican Fire Bush

579 CHILDSI. A quick growing foliage or hedge plant which forms symmetrical globe-shaped plants about 3 feet high. The foliage is cypress-like in appearance, being finely cut clear green color. Early in the fall it is covered with innumerable little flowers which cause the plant to take on a reddish tinge, hence the name of Fire Bush. Seed can be started early indoors and transplanted, or sown in open border and transplanted or thinned out. Annual. **Oz., 35c; pkt., 10c.**

Four O'clock (MARVEL OF PERU)

Old-fashioned flowers which are borne on erect, bushy plants, 2 to 3 feet high. Flowers are large, tube-shaped, opening in the afternoon and remaining open all night, and close again in the morning. Very desirable for borders and backgrounds for lower growing plants. Hardy annual.

562 MIXED. Comprises all shades. **Pkt., 10c; oz., 25c.**

FORGET-ME-NOT. See Myosotis, page 49.

FOREGLOVE. See Digitalis, page 46.

Geranium - Pelargonium

The heads of gorgeous flowers, of many shades of color, borne continuously, render this one of the most popular plants grown, either for pot culture in winter or for bedding out in summer. Tender perennial.

566 SINGLE LARGE FLOWERING. Mixed. **Pkt., 15c.**

Globe Amaranth (GOMPHRENA)

An everlasting, with beautiful colored flowers resembling clover-heads. They retain their color and are lovely in winter bouquets.

568 MIXED COLORS. **Pkt., 10c.**

Godetia - Satin Flower

Attractive, hardy annuals, deserving more extensive cultivation, especially in the cooler parts of the country. The plants bloom profusely, and bear showy flowers, not unlike an Azalea, of satiny texture in many rich and varied colors. They do best in a rather poor soil. 1 foot.

569 KELVEDON GLORY. The color is deep glowing salmon-orange, of an intensity and vividness that can be found in no other annual. **Pkt., 15c.**

570 SYBIL SHERWOOD. Bright salmon-pink, softened by an indefinite edging of white. **Pkt., 10c.**

571 DWARF SINGLE EXQUISITE MIXED. **¼ oz., 25c; pkt., 10c.**

Gypsophila - Baby's Breath

Quick-growing, producing great numbers of small flowers in loose, graceful sprays. Valuable for cutting; fine for mixing with other flowers. Blooms quickly from seed and liberal sowings should be made every three weeks from April to July to cut continuously. For early spring flowers sow previous autumn.

572 ELEGANS ALBA. (True Covent Garden Strain.) A grand improvement, flowers large and pure white. **Oz., 25c; 4 oz., 85c; pkt., 10c.**

573 ELEGANS DELICATE PINK. Pretty blush-pink form of the above and equally valuable for cutting. **Oz., 25c; pkt., 10c.**

574 MURALIS. Dwarf hardy annual; rose-colored flowers, suitable for rock work. Height, 9 inches. **¼ oz., 25c; pkt., 10c.**

FOR PERENNIAL GYPSOPHILA. See page 48.

Helichrysum - Strawflower For Winter Bouquets

A Strawflower of the easiest culture; one of our best "Everlasting" flowers, the dried double bloom being very handsome in winter bouquets. 2 feet.

575 DOUBLE MIXED. **¼ oz., 25c; pkt., 10c.**

Heliotrope

576 LARGE FLOWERED HYBRIDS. A mammoth flowering variety having enormous quantities of flowers and trusses sometimes measuring 10 to 12 inches across. Very fragrant. Colors vary from pure white through the various shades of blue and purple to indigo. **2 pkts., 25c; pkt., 15c.**

Heteropappus

577 BLUE DAISY. One of the finest "blue" plants for late summer and autumn flowering. Plants grow 1½ feet tall and are literally covered with Marguerite-like flowers, 1 to 1½ inches across, which greatly resemble hardy fall Asters. The color of the beautiful lavender-blue to azure-blue petals is accentuated by the bright yellow central disc. Lasts well when cut. Plants are symmetrical in growth; leaves are produced in rosettes from which arise the much-branched, wiry stems. **Pkt., 15c; ½ oz., 30c.**

Hunnemannia

(Santa Barbara Poppy; Bush Eschscholtzia; Yellow Tulip Poppy).

578 SUNLITE. A double-flowered Poppy which is different. Its extra band of petals is produced on the outside, rather than the inside of the tulip-shaped flowers, giving the impression of being open even after the blossoms have closed for the night. Flowers bright canary-yellow, and the foliage of the 2-ft. bush is light grey-green. Like a sunny position in well-drained soil; flower freely in late summer. **Pkt., 10c.**

Lantana

Half-hardy greenhouse or bedding plants constantly in bloom, bearing miniature verbena-like heads of orange, white, and rose. Start seed indoors early.

580 DWARF BEDDING HYBRIDS. Fine for bedding and pot culture. Will bloom freely all summer. $\frac{1}{4}$ oz., 30c; pkt., 10c.

Linaria "Baby Snapdragons"

Bright colored Snapdragon-like flowers. The plants are not more than 8 inches high, are very compact in habit, bearing flowers of many distinct colors such as rose, yellow, pink, lavender, carmine, red, violet, white and salmon. Excellent for bedding or for pots. Will do better when sown in boxes and planted out.

596 FAIRY BOUQUET. All colors mixed. Pkt., 15c; $\frac{1}{8}$ oz., 40c.

Linum - Flax

597 GRANDIFLORUM RUBRUM. (Scarlet Flax). One of the most effective and showy bedding plants, of long duration, having fine foliage and delicate stems, with brilliant scarlet-crimson flowers. Hardy annual. 1 foot. Pkt., 10c.

PERENNIAL FLAX. See page 48.

Lobelia

598 BLUE GOWN. An excellent new variety, with clear deep blue flowers without eye, and foliage of a bright medium green. Being extremely free-flowering and of a very fine compact habit, it will be found most effective for small beds and edgings. Pkt., 20c.

599 CRYSTAL PALACE COMPACTA. Rich deep blue; dark foliage. Height 4 to 6 inches. $\frac{1}{8}$ oz., 40c; pkt., 15c.



Giant Imperial Larkspur

Larkspur - Annual Delphinium

Tall showy plants that bloom freely during the summer months. They are very gay and especially useful for massed bedding and cutting. Blooms quickly from seed.

Giant Imperial Larkspur

A new type of Annual Larkspur, developed in California. These Larkspurs are ideal for cut flowers, as the flower stems, three to four feet long, branch from the base of the plant. (See illustration).

581 BLUE BELL. Medium blue deeper than sky blue, yet much lighter than lilac, a color up to this time lacking in the Giant Imperial type.

582 BLUE SPIRE. Intense deep Oxford blue.

583 CARMINE KING. Deep carmine-rose.

584 DAININESS. Delicate lavender.

585 EXQUISITE PINK IMPROVED. Soft pink shaded salmon.

586 GLORIA, IMPROVED. A rich tone of deep rose with no trace of carmine.

587 LILAC SPIRE. Beautiful blue color.

588 LOS ANGELES IMPROVED. Color brilliant rose on salmon.

589 MONTROSE. Clear rose-pink, having the same shatter-proof qualities as Rosalind.

590 PINK PERFECTION. Lively light pink. Early flowering.

591 ROSALIND. Rose suffused salmon. More shatter-proof than other varieties.

592 SWEET LAVENDER. Rich lavender.

593 WHITE KING. Pure white. Early.

Any of the above: Pkt., 15c; $\frac{1}{4}$ oz., 35c.

594 IMPERIAL MIXTURE. Mixture of above named varieties. $\frac{1}{4}$ oz., 25c; pkt., 10c.

PERENNIAL LARKSPUR. See Delphinium. Page 46.

COLLECTION OFFER

2594 GIANT IMPERIAL LARKSPURS. One packet each of Blue Spire, Carmine King, Daintiness, Exquisite Pink, and White Spire. Five 15c pkts., 60c.

Larkspur, Stock Flowered

595 ROSAMOND. The color is new and distinct, a pure bright rose, does not fade badly. Blooms early. Pkt., 15c.

Lupinus

A new and greatly improved strain of annual Lupinus growing 3 to 4 ft. high.

600 HARTWEGII GIANT KING. Mixed colors. Contains all colors. Pkt., 15c; $\frac{1}{4}$ oz., 25c.

601 TEXAS BLUE BONNET. The flowers are of delightful blue, with distinct heart-shaped eye of deep rosy flesh. Charming bushy plants. Height 15 inches. 1 oz., 35c; pkt., 10c. See also Perennial varieties, page 49.

For more beautiful and luxuriant Sweet Peas and Lupinus, inoculate with Nitragin. See page 53.

MARIGOLD. See next page 34.

Myosotis - Forget-Me-Not

The following varieties of Myosotis are biennial, but are best treated as annuals, as they will bloom the first year from seed. For early spring flowers, sow seed in August. Protect the plants or winter them over in a cold frame like Pansies, or seed may be sown in a hotbed or cold frame in the spring and they will commence blooming in July. A cool, half-shady place is suitable.

626 ALPESTRIS, BLUE BALL. Very early, bright blue, compact habit. Pkt., 15c.

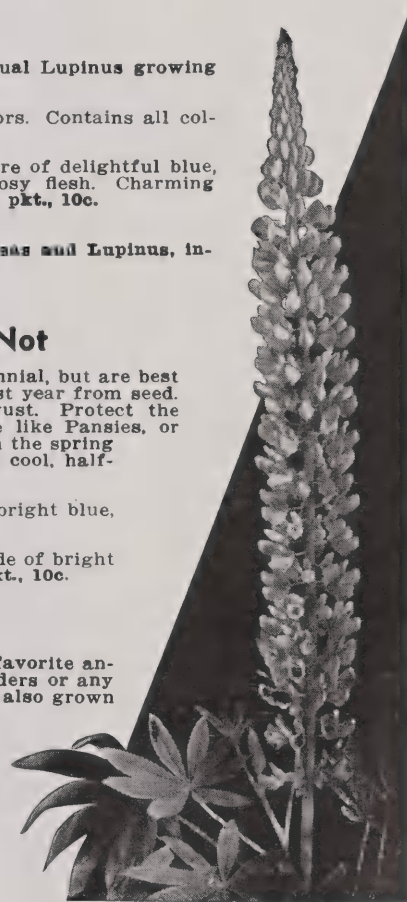
627 ALPESTRIS, ROSE. This is a lovely shade of bright rose, a rather unusual color. $\frac{1}{8}$ oz., 25c; pkt., 10c.

Mignonette - Reseda

Its sweet, delicate fragrance makes this a favorite annual in every garden. Sow in May in the borders or any sunny spot where plants are to remain. It is also grown in pots for winter and early spring flowering. Mignonette prefers a medium light, loamy soil, with only a moderate amount of moisture.

628 LARGE FLOWERING SORTS. Special mixture of many shades. $\frac{1}{4}$ oz., 30c; pkt., 10c.

FEED THE WILD BIRDS—THEY WILL HELP YOU FIGHT INSECTS IN YOUR GARDEN.



Lupine, Giant King, Choice Mixed



Marigold, Harmony

Dwarf Double French Varieties

This class of Marigolds will form dense bushes not over 12 inches high and are unequalled for borders or low beds.

- 614 GOLDEN BALL.** Golden yellow.
- 615 GOLDEN YELLOW.** Bright golden yellow flowers, having a brown margin.
- 616 LEMON BALL.** Very compact, flowers pale sulphur-yellow.
- 617 ROBERT BEIST.** Dark maroon.
- 618 SPOTTED.** Yellow, spotted brown.
- 619 HARMONY.** While this variety is listed as a dwarf French double variety, it is of a very charming and distinctive type. The flowers are quite different from any other Marigold, scabiosa-like in formation with tubular deep orange center petals flanked by broad velvety dark maroon-brown guard petals. Will bloom very early.
- 620 GOLDEN HARMONY.** Scabiosa-flowered type of a solid golden yellow with a single row of broad guard petals, holding the same bright yellow throughout.
- 621 ROYAL SCOT (DWARF) ALL DOUBLE.** A new strain of Dwarf Striped Marigold. Color is rich mahogany and gold in uniform stripes. Absolutely double.
Price: Any of the above, $\frac{1}{4}$ oz., 25c; pkt., 10c.
- 622 DWARF FRENCH DOUBLE MIXED.** Comprising all shades. Very double. $\frac{1}{4}$ oz., 20c; pkt., 10c.
- POT MARIGOLD.** See Calendula, page 29.
- FIGMY MARIGOLD.** See Tagetes, page 39.

Moonflowers

These beautiful climbers grow rapidly and will reach a height of 20 to 30 feet. For best results, start seeds indoors and set plants out when weather has become warm. Soaking the seed in warm water for 24 hours is beneficial.

- 1076 SKY BLUE.** Large, sky-blue flowers. Blooms profusely. A strong growing vine, excellent for porches, garden houses, etc. Blooms late September and October. $\frac{1}{4}$ oz., 50c; pkt., 10c.
- 1077 GIANT WHITE.** The vines are just covered with immense white flowers, opening in the evening and remaining open during cloudy days. $\frac{1}{2}$ oz., 30c; oz., 50c; pkt., 10c.

Marigolds for Color in Late Summer and Autumn

Four Beautiful Carnation-Flowered Marigolds

- 602 GUINEA GOLD.** This is a very distinct type of Marigold of graceful pyramidal habit, growing 2 to 2½ feet high, and producing 30 to 40 flowers, 2 to 2½ inches across, of a brilliant shade of orange flushed with gold. Unlike the ordinary African Marigold, this new variety produces no single flowers, but is practically 100 per cent semi-double. The characteristic Marigold odor, too, is much less pungent than in other sorts. $\frac{1}{8}$ oz., 25c; pkt., 10c.
- 603 YELLOW SUPREME.** Flowers full double, creamy lemon-yellow, a little larger than those of Guinea Gold. Plants 2 to 3 feet tall, without the usual odor, and are free-blooming. A splendid companion for Guinea Gold. Pkt., 10c; $\frac{1}{8}$ oz., 25c.
- 604 GOLDEN EAGLE.** A delightful shade of luminous gold, early flowering and produces 100 per cent double 3- to 4-inch flowers. Similar to Guinea Gold in height and habit. Midway between Guinea Gold and Yellow Supreme in color. Pkt., 10c; $\frac{1}{8}$ oz., 25c.
- 605 BURPEE'S GOLD.** Odorless foliage, deep orange flowers. Pkt., 10c; $\frac{1}{8}$ oz., 25c.

- 606 AMERICAN BEAUTY MIXED.** (Chrysanthemum-Flowered.) Quilled and incurved, of good size; shades of orange and yellow. Pkt., 15c; $\frac{1}{8}$ oz., 40c.
- 607 ORANGE ALL DOUBLE.** An excellent strain, producing flowers 100 per cent double. The blooms are well rounded and of an intense rich orange color. Pkt., 15c; $\frac{1}{4}$ oz., 50c.
- 608 LEMON ALL DOUBLE.** Same habits as the above variety but the flowers are clear lemon-yellow. Pkt., 15c; $\frac{1}{4}$ oz., 50c.
- 609 ORANGE PRINCE.** Large, perfectly double, quilled flowers of a deep golden orange color. $\frac{1}{4}$ oz., 25c; pkt., 10c.
- 610 LEMON QUEEN.** A lovely counterpart of Orange Prince of a soft lemon-yellow color. $\frac{1}{4}$ oz., 25c; pkt., 10c.
- 611 AFRICAN DOUBLE MIXED.** Comprises various shades and well adapted for large beds or mixed borders. $\frac{1}{4}$ oz., 20c; pkt., 10c.

Giant Flowered Marigolds

- 612 SUNSET GIANTS.** The largest type of Marigold, often 5-6 inches in diameter. Free flowering, lacking the usual Marigold odor. The flowers are loosely formed with broad, heavy petals, and come in a mixture of colors, ranging from deep orange through to light lemon-yellow. Height 3½ to 4 ft. Pkt., 15c; $\frac{1}{8}$ oz., 25c.
- 613 ORANGE SUNSET.** Like its parent variety, Sunset Giants, Marigold Orange Sunset produces very large loosely formed full-centered flowers of a deep rich, lively orange. Size of flower and character of growth same as Sunset Giants described above. Pkt., 15c.

Tall Single French Marigolds

- 623 FERDINAND.** This variety is unusually bright and colorful, growing 20 to 24 inches tall. The blooms are single with a golden yellow crested center, surrounded by a single row of broad rich mahogany-red, dark petals. The blooms are about 1½ to 1¾ inches in diameter. The stems are long and wiry. An excellent cut flower in addition to its bedding qualities. Pkt., 15c; $\frac{1}{8}$ oz., 35c.
- 624 JOSEPHINE.** Showy plants, 2½ ft. tall with a great display of large single golden yellow blooms, with maroon center. Pkt., 10c; $\frac{1}{4}$ oz., 25c.

Dwarf Single French Marigolds

- 625 LEGION OF HONOR.** (Little Brownie.) A single flowering Marigold, forming compact bushes 9 inches high. Begin flowering early, commencing in June, continuing until frost. The flowers are golden yellow, marked with a large spot of velvety crimson at the base of each petal. $\frac{1}{4}$ oz., 25c; pkt., 10c.

Morning Glories

The well-known and popular hardy annual climbers which produce large trumpet-like flowers of many brilliant colors. Seed is sown where they are to bloom, thinning as may be desired. Height 10 to 15 feet.

- 1078 HEAVENLY BLUE.** Immense flowers of bright sky-blue; very beautiful. $\frac{1}{4}$ oz., 50c; pkt., 10c.
- 1079 SCARLETT O'HARA.** Dark wine-red, early blooming with attractive foliage. Pkt., 15c; $\frac{1}{4}$ oz., 35c.
- 1080 CORNELL.** Large flowers, carnelian-red, bordered white, free blooming, heavy growth of attractive bright green foliage. Pkt., 15c.
- 1081 JAPANESE.** Largest flowers, often 3 inches across, in magnificent colors and brilliantly marked. Oz., 25c; pkt., 10c.



Marigold, Guinea Gold

Double Nasturtium

Nasturtiums will really grow on soils incapable of supporting many other plants, and are most useful on dry, sandy, or gravelly banks. In very dry seasons the Tall sorts have a tendency not to run on a poor soil, and if a trellis is to be covered quickly the plants should be encouraged by watering in the early stages of growth; in wet seasons the Dwarfs have a tendency to run and to produce more leaves than flowers, and they should therefore be sown on as poor a soil as possible.

Double Sweet Scented

These Nasturtiums are of a vigorous bushy habit, producing a few short runners which are thickly studded with long-stemmed double blooms.

629 **GOLDEN GLEAM.** Golden yellow.

630 **SCARLET GLEAM.** Fiery scarlet.

Either of the above varieties:
Pkt., 10c; oz., 20c.

631 **GLEAM HYBRIDS.** Containing all colors. Pkt., 10c; oz., 20c.

Dwarf Double Gem Varieties

A dwarf compact strain of sweet scented double Nasturtiums. Plants are compact and entirely without runners.

632 **GOLDEN GLOBE.** Golden yellow flowers, very compact. Pkt., 10c; oz., 20c.

633 **SCARLET GLOBE.** Fiery scarlet. Pkt., 15c.

634 **DWARF DOUBLE GEM MIXTURE.** Contains an excellent mixture of yellow, orange, scarlet, salmon, cerise, cream and maroon, both light and dark foliage. Pkt., 10c; oz., 20c.

Single Dwarf Nasturtiums

Height, 1 foot

635 **DWARF MIXED.** Comprises all varieties and shades. Oz., 15c; ¼ lb., 45c; 1 lb., \$1.50; pkt., 10c.

Single Tall Nasturtiums

636 **TALL MIXED.** Comprises all varieties and shades. Oz., 15c; ¼ lb., 45c; 1 lb., \$1.50; pkt., 10c.

Nemesia

637 **STREUMOSA SUTTONI MIXED.** Flowers are ½ inch across and are borne in great profusion. The color ranges from white through pale yellow and rose, to orange and crimson, with numerous intermediate shades and a great variety of throat markings. This South African plant is 1 foot high and blooms from June to September. Start seed indoors in March and set plants out in May. This is a bedding annual suited for shady locations and for pot culture. Pkt., 15c.

Nemophila - California Blue Bell

638 **INSIGNIS BLUE** (Baby Blue Eyes). Splendid trailing annual, 6 inches high, fine for edging borders, or rock gardens. Cup-shaped, sky-blue flowers from late spring until frost. ¼ oz., 25c; pkt., 10c.

Nicotiana

One of the easiest annuals to raise and one of the most effective. The blossoms in shape are not unlike a Petunia, but with a longer tube. The flowers open toward evening and emit a powerful perfume.

639 **CRIMSON BEDDEE.** The flowers are a rich deep carmine. Plants are of dwarf, pyramidal habit, not over 15 to 18 inches in height; therefore very effective for mass bedding or for planting in small groups. Pkt., 15c.

640 **AFFINIS WHITE.** Large, pure white, sweet-scented, star-shaped flowers 3 inches across, blooming continually, 2 to 3 ft. Pkt., 10c; ¼ oz., 25c.

641 **AFFINIS HYBRIDS.** Splendid mixture of blue, red and rose shades. Pkt., 10c.

Giant Pansies

This popular annual is so well known that it needs little description. Pansies are easily grown and bloom profusely for many months. Sow the seed indoors early in March or outdoors as early as the ground can be prepared. If sown during August, and wintered over in a cold frame, the plants will begin blooming very early the following spring and continue their showy display throughout the summer.

643 **ENGLEMAN'S GIANTS.** Dark and light shades, huge flowers, very compact and early flowering. Pkt., 50c.

644 **SWISS BLUE** (Ullswater Blue). A solid blue flower with blue-black blotches. Pkt., 25c.

645 **SWISS GIANTS.** This strain of Pansies is the most sensational novelty of many years. The seed we offer will produce flowers of gigantic size, perfectly round, and produce many new color combinations and shades previously unknown in pansies. Blooms early. Pkt., 25c.

646 **TRIUMPH OF THE GIANTS.** A rich mixture of bright colors with many delightful variations and markings. ¼ oz., \$1.00; pkt., 20c.

647 **CHOICE BEDDING MIXED.** Contains a complete range of colors. Blossoms slightly smaller than the giant types. ¼ oz., 30c; ¼ oz., 50c; pkt., 10c.

648 **MAPLE LEAF GIANT MIXTURE.** A distinct variety and quite different from other types. The leaves are of giant size and the flowers are up to 4 inches across, under good cultivation. Of wonderful substance and fine form. Many charming colors are included, both light and dark shades. Pkt., 40c.

TUFTED PANSIES. See Viola, page 51.

Nigella - Love-in-a-Mist

649 **MISS JEKYLL.** Lovely variety giving an abundance of long-stemmed flowers which are of a clear cornflower-blue, prettily set in slender elegant foliage. One of our most attractive annuals. Height 18 inches. Pkt., 10c.

Brilliant Annual Phlox

FLAME FLOWER

For a color effect in the garden there is nothing quite so brilliant and quite so lasting. Quickly grown from seed. They succeed best in a sunny open situation, preferring a light, rich loam. For early flowers, sow seed indoors or in hotbed in March; or they may be sown in open ground from late April until July. If faded flowers are removed, they will bloom until frost.

GRANDIFLORA VARIETIES—Height 1 Foot

- 703 **ALBA.** Pure white. Pkt., 10c; ¼ oz., 40c.
- 704 **BRILLIANT.** Bright rose. Pkt., 10c; ¼ oz., 40c.
- 705 **CARNEA.** Pale flesh. Pkt., 10c; ¼ oz., 40c.
- 706 **COCCINEA.** Fiery scarlet. Pkt., 10c; ¼ oz., 40c.
- 707 **PRIMROSE.** Buff-yellow. Pkt., 10c; ¼ oz., 40c.
- 708 **LEOPOLDI.** Deep rose, white eye. Pkt., 10c; ¼ oz., 40c.
- 709 **VIOLET.** With white eye. Pkt., 10c; ¼ oz., 40c.
- 710 **GRANDIFLORA MIXED.** An extra choice strain of the best large-flowered varieties, unexcelled in profusion and brilliancy of bloom and color. Pkt., 10c; ¼ oz., 30c.

SPECIAL COLLECTION ANNUAL PHLOX

2710. Contains one packet each of the 7 separate varieties offered above. Value, 70c, for 50c.

711 **NEW ART SHADES.** An extra large flowering strain producing flowers in a wonderful range of soft art shades including tones of salmon, apple blossom, soft rose, light violet, etc., many with lighter eye. Flowers very large. Plants about 9 inches high. Pkt., 15c.

712 **SALMON GLORY.** Individual florets 1¼ to 1½ inches in diameter, color a pure salmon-pink with a creamy eye. Pkt., 15c.

Phlox Nana Compacta—Dwarf

A dwarf, compact type, growing 6 to 8 inches tall, Free flowering. Excellent for dwarf beds and borders.

- 713 **FIREBALL.** Scarlet. Pkt., 15c; ¼ oz., 50c.
- 714 **ISABELLINA.** Primrose. Pkt., 15c; ¼ oz., 50c.
- 715 **SNOWBALL.** Pure white. Pkt., 15c; ¼ oz., 50c.
- 716 **SUNRISE.** Chamis-pink. Pkt., 15c; ¼ oz., 50c.
- 717 **VIOLET.** With white eye. Pkt., 15c; ¼ oz., 50c.
- 718 **DWARF MIXED.** Includes all of the above colors. Pkt., 15c; ¼ oz., 45c; ¼ oz., 80c.
- 719 **CUSPIDATA MIXED.** (Star Phlox). Star-shaped flowers with laciniated petals. Pkt., 10c; ¼ oz., 40c.

PERENNIAL PHLOX. See page 49.



Petunia Garden on Crosley Estate, Kipling Road, Cincinnati, Ohio

McCULLOUGH'S PETUNIAS for All Purposes

A very useful and free-flowering annual, thriving on any soil and in the hottest weather. For a showy bed, or for porch or window boxes, few plants equal the Petunia, in effectiveness. Sow the seed in pots or flats in the house or hotbed in February or March, or in the garden as soon as the soil is warm. Cover the seed but slightly as it is very fine.

Double Flowering Petunias

ALL DOUBLE DWARF VICTORIOUS

Dwarf compact plants, covered with giant fringed double flowers, very free flowering.

649 **AMARANTH RED.** Brilliant red.

650 **GAIETY.** Rose and white.

651 **LOVELINESS.** Clear pink.

652 **ORCHID BEAUTY.** Lilac shadings on white ground.

653 **SNOWBALL.** Pure white.

654 **WORLD BEAUTY.** Rosy carmine.

PRICE: Any of the above. Pkt. containing about 100 seeds, 45c each; 3 for \$1.25.

655 **ALL DOUBLE VICTORIOUS MIXED.** An extra dwarf giant mixture of Fringed Petunias producing flowers 100% double. Habit very compact. The plants are remarkably uniform in habit producing a wonderful assortment of brilliant and fancy colorings. Very free flowering; an exceptionally fine strain for pot culture as well as for bedding. Height, 12-13 inches. Pkt., 45c; 3 for \$1.25.

Large Single Flowering Varieties

656 **SNOWSTORM.** Extra large frilled clear white, outstanding for size and much larger than White Cloud. Snowstorm will average 4 inches in diameter. Plants medium dwarf, the finest white for either bedding or pots. Very fragrant. Pkt., 35c.

657 **DAINTY LADY.** Received Awards of Merit, 1936 All-America Seed Selections and the Royal Horticultural Society of England. A remarkable introduction which brings us the first really yellow petunia. The plants are neat, compact, semi-dwarf, and free flowering, bearing generous quantities of medium-sized, delicate, golden yellow flowers, beautifully fringed. Pkt., 25c.

658 **SETTING SUN.** The result of a cross between Petunia grandiflora fimbriata, Brilliant Rose, and a dwarf variety. It comes true from seed and forms compact bushes 12 inches high, covered with beautifully fringed blossoms of a brilliant rose-pink, measuring 3 inches across. It is admirably suited both for growing in pots and for borders. Pkt., 25c.

659 **ELK'S PRIDE.** Dwarf, immense flowers of rich deep Elk's purple, with large lobes forming a five-pointed star. The velvety black veins add much beauty. Pkt., 25c.

660 **DWARF PINK GLOBY.** Large, well-formed flowers of a most exquisite luminous pink, shaded with a contrasting white throat, and marked with creamy white veins. Pkt., 25c.

661 **THE ART.** Large single fringed flowers boldly striped and blotched with brilliant carmine-rose and pure white. Pkt., 25c.

662 **THEODOSIA.** Large, fringed, rosy pink flowers with a clearly defined golden center. Pkt., 25c.

663 **DWARF CARMINE GLORY.** Deep bright carmine-pink. Dwarf. Pkt., 25c.

664 **WHITE CLOUD.** Pure white, very dwarf and compact. Pkt., 25c.

665 **BURGUNDY.** Large single flowers of a deep Burgundy-red enhanced by a rich velvety sheen. The throat, which is white, veined purplish red, creates a beautiful contrast. The flowers measure 3 1/2 inches across. Pkt., 25c.

Large Single Flowering Fringed Mixtures

666 **DWARF GIANTS.** (Ramona Strain.) A dwarf, sturdy growing type, especially suited for pot culture. Flowers are beautifully ruffled and fringed with open well-marked throats. The mixture contains a good assortment of the most desirable dark and light shades which are well balanced. Pkt., 35c.

667 **RUFFLED MONSTERS.** A half dwarf type of erect and robust habit. The flowers are very large and ruffled, with open shallow throats. The colors are mostly the desirable red and dark shades, richly marked and veined. Pkt., 35c.

New Petunia, Miniature

A new strain of dwarf, compact miniature Petunias, forming plants from 4 to 9 inches high, literally smothered with flowers. Plants about 8 inches wide.

668 **MARTHA WASHINGTON.** A new break in Petunias. Martha Washington is a ruffled or frilled Petunia. Its growth is about 9 inches high, and it forms a perfect ball effect, literally smothered with lovely frilled blooms about 3 inches in diameter. Its neat, compact habit makes it suitable for borders, bedding, pots or window boxes. This is a unique novelty in Petunias. Color a bluish-pink veined a wine-red; throat a dark violet. Pkt., 20c; 3 pkts., 50c.

669 **BRIGHT ROSE GEM.** This Petunia is a very rich deep rose with a slight suffusion of scarlet. We recommend Brilliant Rose Gem for those who want a strong color, one that will withstand the utmost in hot, strong sunlight. Pkt., 20c.

670 **PINK GEM.** Flowers clear pink, measuring 2 inches in diameter. Pkt., 15c.

671 **MINIATURE MIXED.** A mixture of light and dark pink, including the ruffled Martha Washington which is described above. Pkt., 15c.

Petunia

Single Bedding Varieties

Growing about 12 to 18 inches high.

- 672 BLUE BEE.** A violet-blue same shade as the Viola, Jersey Gem. $\frac{1}{4}$ oz., 25c; pkt., 10c.
- 673 FLAMING VELVET.** Brilliant velvety scarlet. Pkt., 15c; $\frac{1}{4}$ oz., 50c.
- 674 GENERAL DODDS.** A velvety blood-red. $\frac{1}{4}$ oz., 35c; pkt., 10c.
- 675 HOLLYWOOD STAR.** A rich rose with amber throat. Unique in the form of its flower which consists of a five-pointed star. Pkt., 20c; 3 pkts., 50c.
- 676 HOWARD'S STAR IMPROVED.** A velvety purple with a pure white star in the center of the flower. $\frac{1}{4}$ oz., 50c; pkt., 15c.
- 677 TOPAZ ROSE.** A fiery velvety rose that will neither fade nor burn under the hottest sun. The throat is the color of topaz. Very fragrant. $\frac{1}{4}$ oz., 50c; pkt., 15c.
- 678 WHITE KING.** Pure white. Very free-flowering. One of the finest whites in petunias. $\frac{1}{4}$ oz., 35c; pkt., 10c.
- 679 CHOICE SINGLE MIXED.** A mixture of moderate sized flowers extremely free-flowering. Pkt., 10c; $\frac{1}{4}$ oz., 25c; oz., 75c.

Petunia

Single Dwarf Bedding

Varieties growing 8 to 12 inches high.

- 680 ADMIRAL.** Rich violet-blue with waved flowers on compact plants. Pkt., 20c.

681 ALDERMAN. Beautiful dark violet. Pkt., 15c.

682 BLUE BEDDER. Mid-blue. Pkt., 15c.

683 BLUE GEM. A true violet-blue with ball-shaped growth. Pkt., 20c.

684 CELESTIAL ROSE. Improvement on Rose of Heaven. More compact in growth and deeper in color, a beautiful rich satiny rose. Pkt., 15c.

685 COCKATOO. Violet-purple marked white. $\frac{1}{4}$ oz., 50c; pkt., 15c.

686 CREAM STAR. Soft creamy white. Pkt., 15c.

687 HEAVENLY BLUE. Silvery light blue. Pkt., 15c.

688 KING HENRY. Rich velvety red. Extra dwarf and large flowering. Pkt., 20c.

689 LITTLE BLUE STAR. Exceptionally true. White Star on deep violet blue. Habit of plant rounded and very even. Pkt., 15c.

690 ROSY MORN. Dwarf extra select. Soft carmine-pink with white throat. $\frac{1}{16}$ oz., 25c; $\frac{1}{4}$ oz., 50c; $\frac{1}{2}$ oz., 90c; pkt., 10c.

691 ROSE OF HEAVEN. A brilliant crimson-rose. Pkt., 10c; $\frac{1}{16}$ oz., 25c; $\frac{1}{4}$ oz., 40c.

692 SALMON SUPREME. A rich soft salmon-pink. Pkt., 20c; 3 pkts., 50c.

693 SENATOR IMPROVED. Covered with masses of small violet-blue flowers with pure white throat. Grows about 7 inches high. Pkt., 15c.

694 TWINKLES. Brilliant rose, starred white. Flowers freely produced. Pkt., 15c; $\frac{1}{4}$ oz., 50c.

695 WHITE PERFECTION. A compact pure white. Pkt., 15c.

696 SINGLE DWARF BEDDING MIXED. Includes all the varieties listed above as well as many others. Pkt., 10c; $\frac{1}{4}$ oz., 25c.

Petunia

Balcony or Large-Flowered

A splendid large and free-flowering type for window boxes, vases, hanging baskets, etc., the flowers average 3 inches across and make a very effective display over a long season.

697 BLACK PRINCE. Rich velvety crimson-red. Pkt., 15c.

698 BLUE. Velvety indigo-blue. Pkt., 15c; 2 pkts., 25c; $\frac{1}{16}$ oz., 50c.

699 CORNFLOWER BLUE. (Blue Wonder). Rich, deep blue. Several shades lighter than Balcony Blue. Pkt., 15c.

700 ROSE. Brilliant rose-pink; very effective. Pkt., 15c; 2 pkts., 25c; $\frac{1}{16}$ oz., 50c.

701 VENOSA. Malva-pink veined. Pkt., 15c.

702 BALCONY MIXED. A mixture of the above varieties. Pkt., 15c; 2 pkts., 25c; $\frac{1}{16}$ oz., 50c.

NEW PETUNIAS

See Novelty Page 24.

Turn to pages 22, 23, 24 and 25. There you will find many new things in flowers. Try them. You will be pleasantly surprised.

Poppies for Delicate Tints

Sow seed in the fall or early spring where they are to bloom, as they are difficult to transplant. They flower quickly from seed and thrive best in a light loamy soil. Successive sowings should be made to provide continuous blooming.

Double Annual Poppies

- 720 DAZZLER.** A bright orange-scarlet. Pkt., 10c; $\frac{1}{4}$ oz., 25c.
- 721 SWEET BRIAR.** A delightful shade of deep rose-pink. The blossoms are double, resembling a very large double begonia. Pkt., 10c; $\frac{1}{4}$ oz., 25c.
- 722 DOUBLE SHIRLEY or BEGONIA FLOWERED MIXED.** Beautiful double satiny flowers in every conceivable color. Pkt., 10c; $\frac{1}{4}$ oz., 25c.
- 723 PEONY FLOWERED MIXED.** Very large, double poppies with somewhat broader petals in many pleasing shades. Height, about 2 ft. Pkt., 10c; $\frac{1}{4}$ oz., 25c; oz., 40c.

Single Annual Poppies

- 724 AMERICAN LEGION.** A greatly improved English scarlet or Flanders poppy, with very large flowers of dazzling orange-scarlet. 1 ft. Pkt., 10c; $\frac{1}{4}$ oz., 25c; oz., 40c.
- 725 BLUE SHIRLEY.** Various blue shades. Pkt., 10c; $\frac{1}{4}$ oz., 25c.
- 726 PICOTEE.** White, edged scarlet. Pkt., 10c; $\frac{1}{4}$ oz., 25c.
- 727 TULIP.** One of the most brilliant of poppies, bearing bright scarlet tulip-shaped flowers with a dark spot at the base of each petal. It makes a gorgeous display in masses. Grows about one foot high. Pkt., 10c; $\frac{1}{4}$ oz., 25c; oz., 40c.
- 728 WILD ROSE.** A Shirley poppy with silky petals of a beautiful wild rose shade. Height, 18 inches. Pkt., 10c; $\frac{1}{4}$ oz., 25c; oz., 60c.



Annual Poppies

729 SINGLE SHIRLEY. A beautiful sort which blooms a long season and bears large single flowers of flat but artistic shape. Most petals are of very silky texture with an intense sheen. Others plain, some crimped, some like tissue paper and others wavy. Colors range through shades of pink, rose, scarlet, carmine, and are generally edged with lighter shades. Pkt., 10c; $\frac{1}{4}$ oz., 25c; oz., 40c.

PERENNIAL POPPIES. See page 50.

Portulaca - Moss Rose

Portulacas enjoy the hottest, driest situation and will grow in almost any soil. Foliage is thick and succulent, like that of a Sedum, and the flowers resemble single and double roses. They bloom most freely throughout the summer and fall. Scatter a few seeds in your rockery or anywhere to fill up empty spaces. Sow seed in May when the ground is warm and it is well to mix the seed with dry sand or soil to ensure an even distribution.

Large-Flowering Single Varieties

- 730. WHITE.** **732 PINK.**
731 YELLOW. **733 CRIMSON.**
 Any of the above, pkt., 10c; $\frac{1}{4}$ oz., 75c.
®734 SINGLE MIXED. Pkt., 10c; $\frac{1}{4}$ oz., 20c.

Large-Flowering Double Varieties

- ®735 MIXED COLORS.** Comprises a wide range of colors. Pkt., 10c; $\frac{1}{4}$ oz., 50c.



Rudbeckia, Kelvedon Star

Rudbeckia

717 KELVEDON STAR. A perfect long-stemmed flower for cutting, a sturdy and floriferous plant for bedding. The flowers vary both in form and in coloring, but all have dark brown centers, surrounded by a shining mahogany zone, deep golden petals. It is a rampant grower, reaching a height of 3 feet, and should be planted 18 inches apart, with 2 feet between rows. Will bloom from June until frost. Sowings should be made in February or March and the seedlings planted out during early May. **Pkt., 15c.**

Salvia - Scarlet Sage

One of the most useful and effective bedding plants, which produces immense masses of flowers from early in the season, continuing in uninterrupted succession until frost. Blooms are borne on long spikes well above the foliage and continue in good condition a long time.

739 SPLENDENS. Tall growing sort with dark green foliage and bright fiery scarlet blooms. Annual. Height, 2½ to 3 ft. **Pkt., 10c; ½ oz., 35c; ¼ oz., 60c.**

740 AMERICA or GLOBE OF FIRE. This is the freest and most continuous blooming of all the Scarlet Sages, also the most uniform in habit of growth, which makes it particularly valuable for bedding or planting in lines. **Pkt., 15c; 2 pkts., 25c; ½ oz., 70c.**

741 BLAZE OF FIRE. This new Salvia will be welcome as a novelty of the year. It far surpasses Harbinger in earliness. The flowers are the most brilliant and vivid scarlet imaginable and the habit is ideal for bedding. Blaze of Fire is without doubt the earliest and most dwarf of all scarlet salvia, blooming 10 to 14 days earlier than any other variety and of a much brighter color. **Pkt., 25c.**

742 FARINACEA. (Blue Bedder). A more compact form of the graceful Salvia Farinacea, growing about 2½ feet high, and with a better habit, the plants branching freely from the base. The flowers, borne on long terminal spikes, are of a bright mid-blue, deeper than in the type, and very showy and effective. The plant is vigorous and fairly hardy, and may be had in bloom from August to October. **Pkt., 20c.**

Sanvitalia

(Creeping Miniature Zinnia)

@743 PROCUMBENS FL. PL. 6-inch. Sanvitalia flowers are much like tiny zinnias, golden yellow with very dark purple centers, some single and others double. The plants are prostrate and creep over the soil instead of growing upward. They start blooming in June and continue until frost. **Pkt., 10c; ½ oz., 30c.**

Salpiglossis - Painted Tongue

A very showy, half-hardy annual which is desirable both for bedding and border plants. Has richly colored funnel-shaped flowers of many shades including yellow, buff, crimson and scarlet and extends through to purple and almost black.

738 DWARF GIANT FLOWERING. All colors. **Pkt., 15c.**

Ricinus

(CASTOR BEAN)

736 ZANZIBARIENSIS. Grows to immense size. Leaves sometimes measure 30 inches across and range in color from bright green to deep bronze. Choice mixed colors. **Pkt., 10c; oz., 25c; 4 ozs., 75c.**

Sweet Scabiosa

(Pincushion Flower, Mourning Bride)

One of the old-fashioned popular annuals which produce an abundance of many colored flowers excellent for cutting. Blossoms are borne on long stems, are fragrant, double and somewhat the shape of a pincushion. An effective plant for bedding or borders.

Seed can be sown in open border and thinned out from 1 to 1½ ft. apart. Grows 2 to 2½ ft. high.

744 ROSETTE. As a result of many years' selection and painstaking care in Rosette has been created a glorious new color in Annual Scabiosa. Rosette is a beautiful shade of deep rose, heavily suffused with salmon. The flowers are extra large and the stems are long and stiff. This glorious, glowing new color will undoubtedly make Rosette a most popular flower for the garden and also with the florist for cutting. A fitting companion to Scabiosa Loveliness, Peach Blossom and Shasta, which have received Awards of Merit from the Royal Horticultural Society. **Pkt., 15c; ½ oz., 35c.**

745 BLUE COCKADE. This outstanding novelty is deeper than Azure Fairy in color, but the flowers are entirely devoid of any suggestion of rose. They are, in fact, the purest deep azure-blue that can be found in any annual. The formation of the flower is far ahead of existing varieties, and has so great a depth as to be almost conical in shape. **Pkt., 10c; ½ oz., 25c.**

746 BLUE MOON. This new variety belongs to the Imperial Giant type, with large deep lavender-blue flowers, a reminder of Blue Cockade but with 3- to 4-ft. columnar plants; long, wiry, basal branching, erectly held stems. This is of the bee-hive shape, deep and wide, covered with petals and without the pincushion top, an excellent cut flower variety. Honorable Mention, 1938 All-America Selections. **Pkt., 15c.**

747 GIANT LOVELINESS. Soft delicate salmon-rose. **Pkt., 10c; ½ oz., 25c.**

748 PEACH BLOSSOM. A beautiful shade of peach-blossom-pink, of large size and long stem. An excellent cut flower. **Pkt., 10c; ½ oz., 25c.**

749 SHASTA. A pure white of enormous size, the flowers measuring 3½ inches across with extremely long stems. **Pkt., 10c; ½ oz., 25c.**

750 AZURE FAIRY. Clear lavender-blue. **Pkt., 10c; ½ oz., 25c.**

751 CRIMSON. Rich rosy crimson. **Pkt., 10c; ½ oz., 25c.**

752 YELLOW. **Pkt., 10c; ½ oz., 25c.**

753 KING OF THE BLACKS. **Pkt., 10c; ½ oz., 25c.**

754 GIANT HYBRIDS. A splendid sort for large beds or borders, comprises many beautiful colors. Height 2½ feet. **Pkt., 10c; ½ oz., 25c; oz., 80c.**



Salpiglossis—Painted Tongue



Scabiosa

Scabiosa Collection

5754 Contains 1 packet each of Azure Fairy, Peach Blossom, Crimson, Shasta, Loveliness and King of the Blacks. Value 65c, for 50c.

Schizanthus

(Butterfly Flower or Poor Man's Orchid)

An attractive hardy annual growing about 20 inches high, of neat, compact growth, and with finely cut foliage. The plant bears very attractive flowers ranging in color from white to purple and are shaded from their edges to throats with darker colors. Flowers resemble somewhat the butterfly and are borne in clusters or spikes. Seed can be sown outdoors after danger of frost, or started earlier indoors and transplanted.

755 FINEST MIXED COLORS. Pkt., 10c; 1/16 oz., 50c.

SNAPDRAGON. See Antirrhinum, page 27.

Statice

The annual Statice is not only a beautiful flower in the border, but dries retaining its true colors, which are rare among everlastings. Indispensable in making winter bouquets.

756 RUSSIAN (Suworowi or Rat Tail). Flowers bright rose color. Height 30 inches. Pkt., 15c.

Stevia

757 SERRATA. Free-blooming tender perennial, bearing a multitude of fragrant, pure white flowers; suitable for summer bedding or winter blooming under glass. Excellent for cutting. Pkt., 15c.

STOCKS—Cut and Come Again

NEW DOUBLE EXCELSIOR COLUMN

"Non-Branching"

This new class of Stocks produces only one spike of enormous size with large flowers, 2½ to 3 feet high. They can be planted close together on the greenhouse bench which makes them a profitable variety.

768 EXCELSIOR MIXED. Pkt., 35c.

Early Giant Imperial (Improved Bismarck)

One of the best Stocks for inside and outside planting. The plants grow in pyramidal form, covered with large double flowers.

769 GIANT IMPERIAL MIXED. Pkt., 15c.

Double Large Flowering Dwarf Stocks

Ten Weeks' Stocks

Sweet-scented, double flowers on strong spikes. Fine for the garden; 15 to 18 inches tall.

770 FINEST MIXED. All colors. Pkt., 10c; ¼ oz., 40c; ½ oz., 75c.

Stocks, Giants of California

An excellent group which blooms very early. When planted close they grow to a height of 3 feet or more, having only a single central spike with a 15 inch stem of florets.

758 GOLDEN GATE. Yellow.

759 MONTEREY. Pink.

760 PACIFIC. Blue.

761 RED WOODS. Blood-red.

762 SANTA BARBARA. Chamois.

763 SANTA MARIA. White.

764 SEQUOIA. Rose-carmine.

765 TAHOE. Lavender.

766 YOSEMITE. Rose.

767 EXQUISITE MIXED. All colors.

PRICE: Any of the above. Pkt., 15c; ¼ oz., 75c.

Sweet Peas

Sweet Peas are among the seeds to be sown very early in the spring. They should go into the ground as soon as the soil can be worked, and should be planted six inches deep, being covered at first with only two inches of soil, the trench being filled as the plants grow. One ounce sows 35 to 40 feet in a row. It is best to soak the seeds for several hours before they are planted. If this plan of planting early is followed, and Sweet Peas are kept mulched or else watered abundantly, they will generally give a fine crop of blooms.

Early Flowering Spencer Varieties

While these are especially adapted for forcing under glass for winter and early spring blooming, they are also valuable for outdoor culture, coming into bloom five or six weeks earlier than the regular Spencer type, and if the flowers are kept cut, they will continue to bloom for a long time.

774 MARINER. Clear marine-blue.

775 BRIDESMAID. Deep silvery pink, long-stemmed.

776 HARMONY. Clear lavender.

777 HOPE. A mammoth flowering pure white.

778 JOSIE. Extra long-stemmed clear rose-pink.

779 MAJESTIC ROSE. Rose-pink, long stems.

780 MARS. Oxblood-crimson.

781 SEQUOIA. Extra large salmon-rose.

782 VALENCIA. Sunproof, orange, long-stemmed.

Price any of above: Pkt., 10c; ½ oz., 25c; oz., 40c; ¼ lb., \$1.25.

783 EARLY FLOWERING MIXED. A splendid mixture containing all colors.

Pkt., 10c; oz., 30c; ¼ lb., \$1.00.

Summer Flowering Spencer

784 AVALANCHE. Frilled white flowers.

785 BEAUTY. Blush-pink.

786 COMMANDER GODSALL. Deep violet-blue.

787 HEAVENLY BLUE. Delphinium-blue.

788 HUNTSMAN. A sun-proof scarlet.

789 IVORY PICTURE. Ivory-cream.

790 PINKIE. Clear deep pink.

791 PIRATE GOLD. Golden orange.

Price any of the above: Pkt., 10c; oz., 25c; ¼ lb., 75c.

Eight Summer Flowering Sweet Peas

2792 Contains 1 packet each of the eight varieties offered above. Value, 80c, for 60c.



Stock, Giants of California

792 BEST SPENCER MIXED. Comprises the best varieties in all beautiful shades and colors and much superior to that offered indiscriminately as coming from growers. Pkt., 10c; oz., 15c; ¼ lb., 50c; 1 lb., \$1.50.

HARDY SWEET PEAS. See Lathyrus latifolius, page 48.

Sunflower - Helianthus

(Hardy Annual)

Of easy culture, and the newer sorts are among the most ornamental and effective of all garden annuals. The single flowering sorts are indispensable for cutting. Bloom early and continue until frost.

771 CHRYSANTHEMUM-FLOWERED. Fine, perfectly double golden flowers, resembling Japanese chrysanthemums; 8 to 10 inches in diameter. Plants grow to the height of 8 to 10 ft. Pkt., 10c; oz., 30c.

772 RED. The flowers are of a chestnut-red color, which appears as a ribbon around the center while the points of the petals are tipped yellow. Grows to a height of 6 feet. Pkt., 10c.

773 STELLA. Height, 3 to 4 feet. Flowers star-shaped, of brightest golden yellow, with dark centers. They are suitable for cutting. Pkt., 10c; ¼ oz., 25c.

Tagetes - Pigmy Marigold

793 SIGNATA PUMILA LITTLE GIANT. We are proud to offer Little Giant as the highest development yet attained of this pretty little Marigold, with slender fernlike foliage and an abundance of dainty, single, golden orange flowers on plants 4 to 6 inches high, with spread of 8 to 10 inches. Pkt., 10c.

Tithonia

The golden flower of the Incas or Mexican Sunflower.

Tithonia is a rare plant coming from Mexico, the home of the dahlia. History tells us that Tithonias were found growing in Peru as early as 1531, and were later found in Mexico. It is remarkable that a flower of such striking beauty should have been lost to cultivation until this time.

794 FIREBALL. Dazzling as a ball of fire poised high above other flowers, Fireball is, undoubtedly, the last word in brilliance of color in a fall blooming plant. Many who have known and enjoyed Tithonia Speciosa have considered it the brightest possible flower for fall use. With the introduction, however, of Fireball, this older variety is entirely overshadowed. Fireball is a very brilliant, vibrant shade of scarlet-orange, the petals in dazzling contrast to the clear yellow center. The gaily colored flowers are single, very large, $4\frac{1}{2}$ to 5 inches in diameter, and are carried on fine long stems. The plants are very tall, some reaching a height of 8 or 9 feet, with a fairly heavy growth of grayish green, woolly foliage.

They are, however, neat in appearance, filling in well from the very base of the plant to the top, and unlike the older Tithonia Speciosa do not become ragged looking. In southern warm districts, seed should be sown in late spring outdoors, while in the northern sections it should be started indoors and the plants set out after danger of frost has passed. Tithonia Fireball is a tender annual, flowering late in the season, and is not subject to plant diseases. It is extremely showy in the garden and an excellent new cut flower variety as the flowers will keep five or six days when cut. **Pkt., 15c.**

Torenia

A free-blooming annual, growing 10 to 12 inches tall. Makes a fine display in borders, pots, or window boxes.

795 FOURNIERE. Velvety blue with dark blue blotches and yellow throat. **Pkt., 15c; 1/16 oz., 50c.**

Tripteris

796 HYOSERIOIDES. A distinct and attractive plant from South Africa. Literally covered with showy, daisy-like, light cadmium-yellow flower with dark brown discs. Flowers $1\frac{1}{2}$ to 2 inches across, excellent for cutting and very showy. Plants 2 to $2\frac{1}{2}$ feet. **Pkt., 20c; 3 for 50c.**

Ursinia

Emerging from their South African solitudes, the Ursinias have been rapidly making for themselves a place in horticulture. The dwarf plants are well furnished with finely cut foliage, above which rise brilliant orange-colored daisy-like flowers, measuring over 2 inches in diameter, each with a deep purple or red zone around the center. The flowers are borne on long wiry stems, and make an excellent decoration in small vases. Many South African introductions close early in the afternoon, but the Ursinia will be found to remain open until nearly dark. When grown in the garden, it should be given a sunny position, and strong plants raised in pots from seed sown indoors during the latter part of March or early April and transferred to the open ground in May, will produce a very effective display. For flowering under glass, January is the best time for sowing.

797 ANETHOIDES, "SUNSTAR." It may be best described as a vivid golden orange, the beauty of which is enhanced by a zone of bright chestnut-red in the center of the flower. **Pkt., 20c.**

McCullough's "Surprise Garden" Flower Seed

This comprises a mixture of annuals, biennials and perennials and consists of sorts growing at moderate heights. No vines, trailers, or very tall growing plants are used in it.

819 Large pkt., 10c; oz., 25c; 1/4 lb., 75c; 1 lb., \$2.50.

Viscaria

A very beautiful annual and easy to grow. Very free-flowering, producing throughout the entire summer its showy single flowers in red, white and blue shades. For bloom outdoors, seed may be sown in the open during March, April or May, or in September, for early flowering. Height 12 to 18 inches.

817 BRILLIANT MIXED. Special mixture of red, white and blue shades. Height, 1 ft. **Pkt., 15c.**

Verbena

NEW GIANT HYBRIDS

A magnificent new strain of Verbenas, of robust, compact habit and free-blooming. The trusses are immense, the individual florets measuring an inch in diameter. These Verbenas are fixed and come true from seed.

Seed can be started in the house and transplanted to the garden when the weather is warm, or sown in the open ground, thinned and transplanted. Verbenas from seed are much more thrifty and less liable to rust than from cuttings. Annual, 1 foot high.

798 APPLE BLOSSOM. The florets of this Verbena are almost white, shading to a delicate cameo-pink toward the edge of the petals. **Pkt., 15c.**

799 BEAUTY OF OXFORD HYBRID. The color shades from clear rose-pink to rose-red, making this the brightest rose shade of Verbena ever produced from seed. **Pkt., 15c.**

800 BRILLIANT. A rich, deep flame-rose, with a medium size white eye. **Pkt., 15c.**

801 ETNA. Large trusses of intense geranium-red with a small creamy yellow eye. The individual florets are over one inch in diameter. **Pkt., 15c; 1/8 oz., 45c.**

802 LAVENDER GLORY. A true lavender with a creamy white eye. Large florets; sweetly fragrant. **Pkt., 15c; 1/16 oz., 50c.**

803 ROYALE. This is a Verbena of enormous size, the individual florets measuring over an inch and a quarter in diameter. The color of this new Verbena is a rich, deep, royal blue with a large creamy yellow eye. **Pkt., 15c; 1/16 oz., 35c.**

804 SALMON-PINK. Beautiful salmon-pink flowers. **Pkt., 15c; 1/8 oz., 40c.**

805 SPECTRUM RED. An intense bright red having no eye. This variety is a brighter shade than any other Verbena yet introduced. The individual florets are $1\frac{1}{4}$ inches in diameter. **Pkt., 15c.**

806 WHITE **Pkt., 15c; 1/8 oz., 45c.**

807 MAMMOTH MIXED. Comprising a wonderful range of charming colors in every conceivable shade. **Pkt., 10c; 1/8 oz., 30c; 1/4 oz., 50c.**

COLLECTION

New Giant Flowering Verbenas

2807 Contains one packet each of Royale, Etna, Salmon-Pink, and White. (Value 60c) for 45c.

New Dwarf Compact Verbenas

This group is very neat and compact, forming a perfectly symmetrical plant about 6 to 10 inches high and 8 to 12 inches across. They are continuous bloomers, particularly adapted for bedding, borders and small gardens.

808 BLUE SENTINEL. A rich navy-blue. **Pkt., 15c.**

809 DANNEBROG. Intense scarlet, large white eye. **Pkt., 15c.**

810 DWARF COMPACT MIXED. A splendid mixture including the above varieties. **Pkt., 15c.**

Verbena Venosa - Hardy Garden Verbena

811 DELICATE LILAC. Forms erect plant, 12 inches high with delicate lavender flowers produced in such masses as to completely hide the foliage. It is perfectly hardy and does well in beds, borders and may also be used in the rock garden. A perennial treated as an annual, blooming the first year from seed; if sown early will then bloom until frost. **Pkt., 20c.**

Venidium

812 FASTUOSUM HYBRIDS. A magnificent late flowering annual from South Africa. Will produce a glorious display of large, daisy-like flowers in shades of apricot, creamy white, pure white, salmon, canary-yellow, golden yellow and orange. Will withstand extreme heat, which makes this plant very useful in the garden. **Pkt., 15c.**

Vinca - Periwinkle

Valuable for bedding, seed should be sown early. Annual.

813 ROSE. **815 WHITE.**

814 WHITE with crimson eye. **816 MIXED.**

Any of the above: **Pkt., 10c; 1/4 oz., 50c.**

VIOLA. See Perennial page 51.

Wallflower

818 EARLY WONDER MIXED. A recent novelty from Europe. If planted in early spring will be in full bloom by early summer. The flowers are equal to the perennial in size and every respect. It was developed by crossing the Perennial Double with the Early Annual and should thrive and bloom profusely in our warm and dry summer. **Pkt., 15c.**

Xeranthemum - Everlasting Flower

820 DOUBLE MIXED. Bright and pretty "Everlasting" with silvery foliage and silky flowers in pink, white and purple. **Pkt., 10c.**

McCullough's Zinnias for Every Purpose

Few, if any, annuals have greater utility value than that of the Zinnia. Many distinct types have been developed, some bearing flowers of enormous size and others producing miniature double blooms in profusion. For early flowers sow seed indoors in March and transplant seedlings to the garden in early May, or, if preferred, sow seed in open ground in April. Space the large flowering and taller sorts from 1½ to 2 feet apart; Pompon or Lilliput types 8 to 12 inches apart.

Giant Dahlia-Flowered Zinnias

The most outstanding of all Zinnias because of the wonderful range of rich colors. The flowers are immense, often measuring 5 to 6 inches across, and 3 to 4 inches in depth. They are borne profusely from late summer until frost. The bushes are 2½ to 3 feet tall, of well-rounded form.

821 CANARY BIRD. A delicate shade of primrose; very large and holds its color well until out of bloom. **Pkt., 15c.**

822 CRIMSON MONARCH. By far the largest and best of the red shades. Flowers often eight inches in diameter. Plants very vigorous. A marvelous production of extraordinary merit. **Pkt., 15c.**

823 DREAM. A fine, deep lavender, turning to purple (Mallow Purple), a new, desirable shade in Zinnias. **Pkt., 15c.**

824 EXQUISITE. By far the most pleasing of our collection. Truly Dahlia-flowered as regards form and size. Color light rose with center a deep rose (Tyrian rose). **Pkt., 15c.**

825 GOLDEN DAWN. A beautiful golden yellow of immense size and good form. Very attractive. **Pkt., 15c.**

826 GOLDEN STATE. A very rich orange-yellow (cadmium). Yellow in the bud, turning to an attractive orange when in full bloom. **Pkt., 15c.**

827 ILLUMINATION. Similar to Exquisite, but a striking shade of deep rose. **Pkt., 15c.**

828 LUMINOSA. Bright deep pink. **Pkt., 15c.**

829 METEOR. A rich, glowing deep red (spinel red) and the darkest of all the red shades. Fine form, with good depth of petal. Very large and more floriferous than other reds. **Pkt., 15c.**

830 OLD ROSE. This is adequately described by its name, as it is of the real old-rose shade; it is large and for charm and beauty we consider it ranks next to Exquisite. **Pkt., 15c.**

831 ORIOLE. We consider this the most beautiful of its class. It is an immense orange and gold bicolor, changing slightly as it ages, but at all times worthy of the beautiful bird for which it is named. **Pkt., 15c.**



Dahlia-Flowered Zinnia

832 POLAR BEAR. A very large pure white; the best white yet seen in Zinnias. True Dahlia form. **Pkt., 15c.**

833 PURPLE PRINCE. A fine deep purple (Rhodanthe purple), large and well formed. **Pkt., 15c.**

834 SCARLET FLAME. A large beautiful, bright scarlet, with a delightful blending of orange throughout the petal. This is not a bicolor. **Pkt., 15c.**

835 YOUTH. A beautiful soft rose, valuable for forcing and a good shipper, having better lasting qualities than any other variety offered. **Pkt., 15c.**

Any of the above Dahlia-Flowered Zinnias, ¼ oz., 35c; ½ oz., 60c; oz., \$1.75.

836 SPECIAL GOLD MEDAL MIXTURE. A well-blended mixture containing all the above novelties. **Pkt., 15c; ½ oz., 25c; ¼ oz., 40c; oz., \$1.25.**

SPECIAL COLLECTIONS

Giant Dahlia-Flowered Zinnias

2836 Contains 1 packet each of the above 15 separate named varieties. (Value \$2.25) for \$1.50.

3836 Contains 1 packet each of **Crimson Monarch, Dream, Illumination, Golden Dawn, Polar Bear.** (Value 75c) for 50c.

837 PASTEL MIXTURE DAHLIA-FLOWERED ZINNIAS. Composed solely of delicate colors. Comprises soft shades of lemon-yellow, shell-pink, delicate salmon, light rose and orchid. **Pkt., 15c; ½ oz., 35c; ¼ oz., 60c.**

California Giant Zinnias

The strain has the same robust habit as the Dahlia-Flowered. When the flowers are in full bloom, they reach enormous size, but their flatness gives them a most graceful appearance.

838 BRIGHTNESS. Bright, deep pink.

839 DAFFODIL. Canary-yellow.

840 GRENADIER. Bright dark red.

841 LAVENDER GEM. Deep lavender turning to purple.

842 LEMON QUEEN. Golden lemon.

843 MISS WILLMOTT. Soft pink.

844 ORANGE KING. Orange-scarlet.

845 PURITY. White.

846 SALMON QUEEN. Salmon-rose.

847 VIOLET QUEEN. Deep purple.

PRICE, any of the above: **Pkt., 10c; ½ oz., 30c; ¼ oz., 50c; oz., \$1.50.**

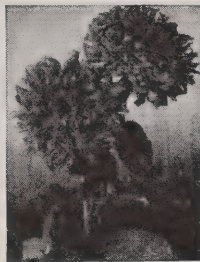
848 FINEST MIXED. A mixture of the above varieties. **Pkt., 10c; ½ oz., 20c; ¼ oz., 35c; oz., \$1.00.**



California Giant Zinnia



Lilliput Zinnia

Fantasy Type,
WildfireHarmony Type,
Campfire

McCullough's

SMALL FLOWERED ZINNIAS



Early Wonder Zinnia

Zinnia, Lilliput

This type of Zinnia forms a bush about 12 to 15 inches high and is covered with small, very double flowers in profusion. Excellent for cutting.

- 849 **CANARY YELLOW.**
850 **CRIMSON GEM.**
851 **FLESH.**
852 **GOLDEN GEM.**
853 **LILAC GEM.**
854 **PURPLE GEM.**
855 **ROSEBUD.**
856 **SALMON-ROSE.**
857 **SCARLET GEM. (Red Riding Hood).**
858 **VALENCIA.** Burnt orange.
859 **WHITE GEM.**

PRICE, any of the above Lilliput Zinnias: Pkt., 10c; $\frac{1}{4}$ oz., 25c; $\frac{1}{2}$ oz., 40c; oz., \$1.20.

BLACK RUBY. See Novelty Page 25.

860 **FINEST MIXED.** A mixture of the above colors. $\frac{1}{4}$ oz., 35c; oz., \$1.00; pkt., 10c.

861 **PASTEL MIXTURE.** Composed solely of delicate colors not found in the ordinary Lilliput Mixture. It comprises soft shades of apricot, peach, creamy yellow, shell-pink, delicate salmon, light rose and orchid. Pkt., 15c; $\frac{1}{4}$ oz., 25c.

Our Special Offer of Lilliput Zinnias

2860 Contains a packet each of **Canary-Yellow, Scarlet Gem, Salmon-Rose, Purple and White Gem.** (Value 50c) for 35c.

Scabiosa-Flowered Zinnia

An entirely distinct and attractive strain of Zinnia of exquisite form, reminding one of the double crested Cosmos and quite often resembling the Annual Scabiosa. The flowers are of medium size and each bears a collar of petals surmounted by a full double crest of the same tone of color. Height about $2\frac{1}{2}$ feet.

862 **CAMPFIRE.** A showy intense scarlet on strong stems. Pkt., 15c.

863 **SUNBURST.** A vivid pure canary-yellow. Pkt., 15c.

864 **MIXED.** Color range from pale rose to crimson-scarlet with orange, golden and purple shades. Pkt., 15c.

Red Riding Hood Zinnia

884 Of compact form, covered the entire season with double scarlet flowers not over an inch across; as a border plant it is highly effective. Height 1 foot. Pkt., 10c; $\frac{1}{4}$ oz., 30c.

Zinnia, Crown o' Gold

885 **MIXED.** This new Zinnia derives its name and distinction from the fact that each petal of the flower is overlaid with a deep golden-yellow at the base, while carrying out the individual flower color at the tip. The effect is a very pleasing two-tone color harmony. The color range comprises the more popular shades, including old rose, cream, yellow, carmine, and burnished red; the latter a new shade in Zinnias. Pkt., 15c.

Fantasy Zinnias

New Zinnias are always welcomed by home gardeners and florists alike. While the Giant Flowered varieties are still popular, the trend of late years has been toward the smaller flowered, more graceful types. This new Fantasy Zinnia meets this demand in all details. The rounded flowers are composed of a mass of shaggy ray-like petals which give a delicate and refined appearance to the medium sized double flowers, large enough to satisfy the desire for massive color, yet small enough to lend themselves gracefully to flower arrangements. Plants $2\frac{1}{2}$ to 3 feet in height, will bloom in 45 to 50 days after seed is planted.

866 **ORANGE LADY.** Deep orange.

867 **ROSALIE.** Bright rose.

868 **STARDUST.** Golden yellow.

869 **WHITE LIGHT.** Pure white.

870 **WILDFIRE.** Dazzling scarlet.

871 **FANTASY MIXED.** Includes the brightest shades of red and orange as well as the pastel pink and cream.

Price, any of the above: Pkt., 15c; $\frac{1}{4}$ oz., 25c; $\frac{1}{2}$ oz., 45c.

Early Wonder - A New Dwarf Race

A new race of dwarf early flowering Zinnias producing masses of medium size flowers on long, nearly leafless, stems. An excellent group for cutting. Height, 15 to 18 inches.

872 **FANDANGO.** Fiery salmon-cerise-pink.

873 **FIESTA.** Rich deep red.

874 **PADRE.** Bright scarlet.

875 **ROSE PINK.**

876 **WONDER MIXED.**

Price any of the above: Pkt., 15c; $\frac{1}{4}$ oz., 60c.

Various Zinnias

877 **PUMILA MIXED.** Comprising all shades. Pkt., 10c; $\frac{1}{4}$ oz., 25c.

878 **CURLED AND CRESTED.** Twisted and curled petals which make very effective flowers. Pkt., 10c; $\frac{1}{4}$ oz., 25c.

879 **MEXICANA HYBRIDS.** Single and semi-double flowers somewhat like those of the French Marigold, in shades of yellow, orange, crimson and brown. Height, 18 inches. Pkt., 10c; $\frac{1}{4}$ oz., 35c.

Gaillardia-Flowered Zinnia

880 **NAVAJO.** Medium large flowers about 2 inches in diameter, in attractive two-tone combination of rose, bronze, yellow and orange. The colorings in this Zinnia are similar to those found in a Navajo rug, hence its name. Fairly long stems, plants about two feet tall, fine for cutting. Pkt., 10c; $\frac{1}{4}$ oz., 25c.

New Giant Crested Howard Zinnia

A sensational novelty. For description, see page 25.

Zinnia Linearis

881 **Linearis** is a dwarf early flowering form somewhat comparable to Mexicana Zinnia. The single flowers are deep golden orange in color, with a delicate light yellow stripe which contrasts boldly with the dark center—a combination which is most attractive. It is early flowering, and the plant reaches a height of 8 to 10 inches with a spread of as much as 2 feet. Pkt., 15c.

Tom Thumb Zinnias

882 **Tom Thumb** is without exception the dwarfest Zinnia known. The plants are rounded and compact, 4 to 6 inches high, literally covered with well formed flowers of the Lilliput type. The color range includes red, orange, yellow, pink, rose, and other pastel shades. During the hot, dry summer months this is the ideal border plant and is also well adapted for window box and pot work. Pkt., 15c.

McCullough's Special Large Flowering Zinnia Mixture

883 Consists of all giant sorts, including the best of the dahlia-flowered California Giants, Crown o' Gold, Curled and Crested. This mixture will produce a riot of color in your garden as well as cut flowers for the table. Pkt., 15c; $\frac{1}{4}$ oz., 25c; $\frac{1}{2}$ oz., 40c; oz., \$1.25.



F. V. Geier Estate, Indian Hill, Cincinnati, Ohio

Seeds of Hardy Perennial Flowers and Rock Garden Plants

There can be no greater joy than the planting of your own Perennial or Rock Garden, and certainly nothing more fascinating than actually growing from seed the plants and varieties desired. Perennials are those plants that go on living and increasing for a number of years, the stems dying down each season and coming again from the roots each spring. Most varieties are easily raised from seed sown during the late spring and early summer in frames or seed beds and transplanted to their permanent quarters in late summer or early autumn. If the seed be planted in August, they should be wintered over in the cold frame and transplanted to the border or rockery the following spring.

We recommend sowing perennial seeds in the spring. Seed germinates better, seedlings have an opportunity to develop into sturdy plants by fall, which permits them to winter over more successfully. The majority of these perennials bloom the second year from seed, although some, like *Coreopsis* and *Gaillardia*, if sown early, bloom the first year. Perennials should be placed in clumps of three or five and left undisturbed for several years.

All varieties marked with a ® throughout the list are especially suitable for the rockery.

Achillea - Milfoil or Yarrow

885 **PTARMICA, THE PEARL.** A free blooming hardy perennial, bearing a profusion of small, double, white flowers on plants 2 feet tall, during July and August. Easily grown from seed, flowering the first season, if sown early. **Pkt., 15c; 1/16 oz., 50c.**

Aconitum - Monkshood

Bold spikes of hood-shaped flowers, valuable for cutting; very effective in flower borders and shrubberies, thriving anywhere. Hardy perennial.

886 **NAPELLUS.** 2½ feet. July, August. Fine, rich blue flowers. **Pkt., 10c; 1/8 oz., 45c; 1/4 oz., 75c.**

Adonis - Pheasant's Eye

®887 **VERNALIS (Spring Adonis).** A very useful hardy perennial for the rock garden or border. Should be planted in a warm corner among *Arabis*, *Aubrietias*, *Crocuses* and *Hepaticas*. Grows 5 to 12 inches tall, bearing single, yellow, buttercup-like flowers during late March and April. Will grow in sun or half shade. Seed germinates slowly. **Pkt., 10c; 1/16 oz., 35c.**

Agrostemma - Mullein Pink

888 **CORONARIA.** Silvery foliage and bright crimson flowers, free-flowering hardy perennial of easy culture; blooms the first season; fine for cutting; 2½ to 3 feet. June to August. **Pkt., 10c.**

Alyssum - Rock Madwort

®889 **MONTANUM.** Trailing habit. Silvery leaves and fragrant yellow flowers. Height 4 inches. **Pkt., 20c.**

®890 **SAXATILE COMPACTUM.** (Basket of Gold). Showy, bright yellow flowers, hardy perennials; excellent for rock work; 1 foot. **Pkt., 10c; 1/4 oz., 25c.**

®891 **SAXATILE COMPACTUM, SILVER QUEEN.** Broad masses of pale lemon flowers in early spring. Useful in the border as well as in the dry wall or rock garden. **Pkt., 20c; 3 pkts., 50c.**

ANNUAL SWEET ALYSSUM. See page 26.

VINES. See pages 34 and 51.

Anchusa

892 **ITALICA "FELTHAM PRIDE."** Upright habit, having flowers of the brightest blue. **Pkt., 25c.**

®893 **MYOSOTIDIFLORA.** A Russian species, bearing in April a profusion of pretty pale blue, forget-me-not-like flowers. Height 1 foot. **Pkt., 25c.**

Anthemis - Hardy Marguerite

894 **KELWAYI.** A most satisfactory hardy perennial, bearing all summer daisy-like, golden yellow blossoms; excellent for cutting. 2 feet. **Pkt., 10c; 1/8 oz., 25c.**

Aquilegia - Columbine

This graceful Hardy Perennial is an ideal plant for partially shaded borders. As a cut flower it is noted for its beauty of form and richness of color.

CULTURE. Columbines, especially the long-spurred hybrids, thrive in a light soil, loose and fibrous, provided by adding peat and well-decayed manure. When planted in partial shade, the flowers develop better, grow larger and last longer. Easily raised from seed.

McCullough's Giant Long-Spurred Columbines

The following group comprises without doubt the finest long spurred Columbines to date. Huge flowers on plants 3-4 feet high; strong, robust and very free flowering.

898 **BLUE SHADES.** Pkt., 20c.

899 **PINK SHADES.** Pkt., 20c.

900 **SNOW QUEEN.** Finest white; fragrant. Pkt., 20c.

901 **LONG SPURRED MIXED.** All shades, including many not found in other strains. Pkt., 20c.

902 **CRIMSON STAR.** The novelty we here offer bears flowers of brilliant dark crimson, which, being borne profusely on the plant forms a most attractive subject for the border. This shade is a welcome addition to the long-spurred class. The raiser claims that it will come reasonably true to color from seed. Pkt., 25c.

®903 **LONGISSIMA.** The flowers are of striking formation, with deep yellow petals and paler yellow sepals, and extremely elongated spurs. These spurs may be 5 inches or more in length. The effect is at once dainty, unusual and interesting. The plants are from 2 to 3 feet tall, with characteristic bright green cut-leaf foliage, and reddish stems. Flowers are produced during spring and early summer and are effective in the garden, although much more so in flower arrangements. Pkt., 35c.

®904 **DOBBIE'S IMPERIAL HYBRIDS.** These new long-spurred Columbines are unequalled for their range of colors and sturdiness. They have received a great deal of attention abroad and are considered in England to be one of the best mixtures offered today. Pkt., 25c.

905 **MRS. SCOTT ELLIOTT'S STRAIN OF LONG-SPURRED HYBRIDS.** A renowned English strain, which enjoys a world's reputation for large size flowers with long spurs. The colors range from pure white through tones of pink, blue, yellow and red. Pkt., 15c; 1/16 oz., 50c; 1/8 oz., 90c.

Aubrietia - False Wall Cress

Lovely dwarf growing perennial plant that should be enjoyed in more gardens. Their use is not confined to the rock garden but when massed on dry walls or along the edge of sunny borders with white Arabis and yellow Alyssum will give rich spreads of color. Moreover, they are easily raised from seed, blooming the second year. The plants should be well clipped over after flowering so that they will make a fine growth for next years blossoming.

®912 **EYRI.** Large flowered dark violet-purple. Thrives in stony places or any garden soil. Full sun. Late April and May. Pkt., 15c.

®913 **LEICHTLINI.** Leaves grayish, usually evergreen. Color carmine-rose. Sun or half shade. Late April and May. Pkt., 20c; 1 pkts., 50c.

®914 **LARGE FLOWERING HYBRIDS.** Exceptionally fine strain, including a wide range of many unusual colors, which cannot be fixed and offered separately. Pkt., 15c; 1/16 oz., 75c.



Columbine, Dobbie's Imperial Hybrids

Anemone - Windflower

895 **MONARCH DOUBLE MIXED.** A new strain of double Anemone containing the essential perfections of length and strength of stem, size of flowers and a full range of bright vivid colors, as scarlet, rose and blue. Pkt., 20c.

896 **ST. BRIGID.** A very pleasing perennial, producing large, Irish poppy flowers; few plants compare with them in beauty; fine for bouquets. Pkt., 10c; 1/4 oz., 75c.

®897 **PULSATILLA** (Pasque Flower.) Grows from 9 to 12 inches high and produces violet or purple flowers during April and May. An interesting plant for the rockery or well-drained border. Plant in full sun, 6 to 8 inches apart. Pkt., 15c.

Arabis - Rock Cress

®906 **ALPINA.** A hardy perennial and one of the earliest and prettiest spring flowers. The spreading tufts are covered with a sheet of pure white flowers as soon as the snow disappears. Unequalled for rockeries or edging; withstands the drought and is always neat; 6 inches. Pkt., 10c; 1/4 oz., 25c; oz., 75c.

®907 **ROSEA.** Similar in habit to the above. The flowers are a delicate pale pink. A rare rock plant. Pkt., 25c.

Armeria - Sea Pink or Thrift

Attractive dwarf plants that are invaluable for the rock garden, thriving in sunny places and succeeding in any soil. Forms evergreen tufts of bright green foliage from which flowers appear in dense heads on stiff, wiry stems, from 3 to 12 inches high. May be easily raised from seed.

908 **GIANT HYBRIDS.** A mixture of bright pink, red and carmine. Pkt., 20c.

GROW WHAT YOU EAT

No garden is too small for vegetables. The quantity and quality of food produced will surprise you.



Anemone Pulsatilla

Aster - Michaelmas Daisy

General List of Asters on Page 28.

®909 **ALPINUS GOLIATH.** Indispensable for the rockery or edge of hardy borders; 6 to 10 inches high and bears showy bluish purple flowers in May and June. Plant in full sun, 6 to 8 inches apart. Pkt., 20c; 3 pkts., 50c.

®910 **ALPINUS MIXED.** Similar in habit to the above. Large lavender, blue and white flowers. Pkt., 15c; 1/8 oz., 65c.

®911 **LARGE FLOWERING.** Mixed. Single fall flowering hardy Asters thriving in any good garden soil. If sown early they will flower the first season. Pkt., 15c; 1/8 oz., 60c.

The varieties marked ® are especially suitable for the rock garden.



Aster Alpinus, Goliath



Campanula Carpatica, Blue

Bellis Perennis - English Daisy

A well-known dwarf-growing plant which bears massive and very double aster-like flowers. It is very useful for borders or growing for cut flowers. Plants are about 6 inches high and bear in greatest profusion.

- 915 **GIANT RED.** Pkt., 15c; ½ oz., 75c.
 916 **GIANT ROSE.** Pkt., 15c; ½ oz., 75c.
 917 **GIANT WHITE.** Pkt., 15c; ½ oz., 75c.

- 918 **DOUBLE MIXED.** Large, double flowers, various shades, pink, red, white and other colors. Pkt., 15c; ½ oz., 60c.

Campanula

In this great family of plants are some of the loveliest and most enchanting of rock plants and alpinas, as well as a great number of beautiful and useful plants for the open borders and for naturalizing in half-shaded wild gardens. Easily raised from seed and having the advantage of flowering late and giving blooms in the summer time when flowers in the rock garden or perennial border are scarce.

Campanula - Bellflower

The following Campanulas are all hardy perennials and will succeed in ordinary rich soil.

- ®919 **CARPATICA, BLUE** (Carpathian Harebell). Free-flowering hardy perennial plants, continuing in bloom the whole season; color clear blue. Good for edging and rock gardens. Will bloom the first season if sown early. Height, 6 inches. Pkt., 10c; ½ oz., 30c; ¼ oz., 50c.

- ®920 **CARPATICA ALBA.** The white-flowered form of the above. Pkt., 10c; ½ oz., 30c; ¼ oz., 50c.

- 921 **PERSICIFOLIA, TELHAM BEAUTY** (Peach Bells). Immense bell-shaped flowers of a pale china blue, silvery shading. Height 1 feet. Pkt., 25c.

- 922 **PYRAMIDALIS, BLUE** (Chimney Bellflower). Produces spikes 4 feet long covered with blue, star-shaped flowers during the entire summer. Pkt., 10c.

- ®923 **ROTUNDIFOLIA OLYMPICA.** It is an alpine and comes from the Olympian Mountains of the State of Washington. The flower is of a beautiful deep lavender-blue about 1 inch across and the same in length, borne on a plant of compact habit about 8 inches in height. Blossoms freely through the summer and fall. Pkt., 25c.

Campanula Medium

SINGLE CANTERBURY BELLS

These single Canterbury Bells are highly valued by many gardeners as they will give an exceedingly fine display in the garden and will last quite some time as cut flowers. Cover during the winter with evergreen boughs to protect against severe freezing.

- | | |
|--------------------------------|--|
| 924 Single, Dark Blue | } Any color:
Pkt. 10c;
¼ oz., 25c. |
| 925 —Light Blue | |
| 926 —Rose | |
| 927 —White | |
| 928 —Single Mixed Colors | |

Campanula Calycanthema

Cup-and-Saucer Canterbury Bells

- 929 **SPECIAL MIXTURES.** Pkt., 10c; ½ oz., 35c.

Canterbury Bells

930 DWARF BEDDING SINGLE MIX.

ED. A new dwarf compact type only about 20 inches in height. Forming bushes over 1 feet in circumference, the plants are wonderfully floriferous, often bearing 100 to 150 flowers, and will make a splendid subject for spring bedding. Pkt., 15c.

Hardy Border Carnations

- 931 **GRENADE MIXED.** Dwarf, compact plants with a great profusion of double flowers in various colors. Early flowering and invaluable for cutting. Will bloom first year if seed is sown early. 1 ft. Pkt., 15c.

Centaurea

- 932 **MONTANA** (Perennial Cornflower). Hardy perennial variety, grows 2 feet high, bearing large violet-blue flowers from July to September. Pkt., 10c; ½ oz., 25c.

Cerastium-Snow-in-Summer

These blanketing hardy perennial plants are suitable for growing over stones and rough banks, also used on rough places in the rock garden or for edging of borders.

- 933 **TOMENTOSUM.** Narrow, silvery foliage with white flowers, suitable for planting in dry sunny places. 1 to 6 inches. June. Pkt., 10c; ½ oz., 35c; ¼ oz., 55c.

Cheiranthus

Very pretty dwarf hardy biennial plants, usually handled as annuals, flowering freely throughout the summer from seed sown in spring; for early spring flowering, sow in late summer. Splendid for rockery.

- 934 **ALLIONI** (Siberian Wallflower). About 12 inches high with heads of brilliant orange flowers. Pkt., 10c; ¼ oz., 25c.

Coreopsis - Tickseed

Will flower the first year if sown very early.

- 940 **MAYFIELD GIANTS.** Deep golden yellow. This variety will produce a tall and vigorous plant, having long and firm stems and large individual blossoms. Excellent for cutting. Blooms freely all summer. Pkt., 15c; ½ oz., 25c.

- 941 **LANCEOLATA GRANDIFLORA.** Bright yellow Cosmos-shaped flowers. Pkt., 10c; ½ oz., 25c.

- 942 **SUNBURST.** This new double form is just as easy to grow as the single varieties offered above and the extra petalage adds a further charm to the flowers. Pkt., 20c.



Cerastium Tomentosum

Chrysanthemum-New Types

- 935 **CASCADE.** A new race of Perennial Japanese Chrysanthemums, bearing large clusters of small single flowers in shades of scarlet, bronze, orange, yellow and white. Beautiful when grown in masses affording a splendid colorful garden effect long to be remembered. March and April sown seed in the open ground will bloom in September and October. An admirable greenhouse or potted plant, falling as it does in cascades of beautiful flowers. Pkt., 15c.

Chrysanthemum - Shasta Daisy

- 936 **NEW GIANT DOUBLE WHITE.** (Diener Strain). This strain includes an assortment of various types of double flowers ranging from the most fully double fringed petaled sorts through semi-doubles to a type which, though single, forms unusual and beautifully shaped flowers with lacinated, curled and quilled petals. The flowers are all large and carried on long wiry stems. Pkt., 40c.

- 937 **CONQUEROR.** A Shasta Daisy producing very large pure white flowers, 5 inches in diameter, borne on long, stiff stalks, 18 inches and more in length, of which the vigorous plant throws up a large number. Blooming takes place in about midseason and it is no doubt the largest variety for cutting yet produced. Pkt., 15c; ½ oz., 35c.

- 938 **ALASKA.** A splendid hardy perennial variety with flowers rarely less than 5 inches across, of the purest glistening white, with broad overlapping petals, and borne on long strong stems; a beautiful cut flower, remaining in good condition a week or more. Pkt., 10c; ½ oz., 25c.

Korean 'Mums

From Seed

- 939 **KOREAN HYBRIDS.** Seed saved from one of the best collections representing a wonderful range of colors. Large flowering single and semi-double flowers. Will bloom the first year from seed if sown early. Pkt., 35c.

Delphinium - Hardy Perennial Larkspur

The Delphinium, or Hardy Larkspur, is one of the most valuable of all herbaceous plants. It provides many of the light and dark shades of blue colors greatly in demand, but very scarce. Many delightful shades of lavender and mauve are also present in the newest strains, all of which will be found in the choice varieties offered below.

Pacific Strain Delphiniums

We offer below seed direct from originator of their new Pacific Strains of Delphinium in four distinct shades. Each color has been developed separately to come true from seed with slight variations within the color. The originator reports 90% true from seed.

1520 BLUEJAY SERIES. The bluest of the present blues, ranging from medium to dark with strongly contrasting dark bee. Very long spikes, quite mildew-resistant. **Pkt., 50c.**

1521 GALAHAD SERIES. Clear white of enormous size. For complete description, see novelty page 23.

944 KING ARTHUR SERIES. Brilliant royal violet with large white bee. Individual florets $2\frac{1}{2}$ inches in diameter, very thin woody stems with small foliage. Very long graceful spikes. Excellent for both cut flower and show purposes. **Pkt., 50c.**

945 GUINEVERE SERIES. Light pink lavender self with white bee. Individual florets $2\frac{1}{2}$ to 3 inches in diameter, large spikes, excellent branching habits. For cut flower and show purposes. **Pkt., 50c.**

946 SUMMER SKIES SERIES. Clearest light blue with white bee. Individual florets 2 to $2\frac{1}{2}$ inches in diameter. Thin woody stems with very strong branching habits. Ideal for cut flower purposes. **Pkt., 50c.**

947 GIANT PACIFIC HYBRIDS (V. & R.) A new strain of hand pollinated Delphinium seeds from California. Mildew resistant, having large, fine spikes with large flowers that remain in good condition over a long period. Shades of lavender, violet and blue. We believe this strain to be an improvement in the Hybrid Delphinium class. **Pkt., 40c; 1/16 oz., \$1.25.**

Delphinium Mixtures of Famous English Specialists

948 BLACKMORE & LANGDON'S STRAIN. We take great pride in offering this unusually fine mixture which contains nearly all of the newest varieties developed by these famous English Delphinium specialists. Many of their varieties have earned gold medal awards in England. The seed we offer is saved from their best varieties, including their novelties and imported direct from them by us. Mildew resistant. **Pkt., 40c; 1/16 oz., \$1.25; 1/8 oz., \$2.00.**

949 WREXHAM HYBRIDS, HOLLYHOCK STRAIN. A fine mixture of all shades of blue, lavender and mauve. Large flowers well placed on long pyramidal spikes. Their sturdy appearance reminds one of the Hollyhock, hence the name. **Pkt., 35c; 1/16 oz., 90c; 1/8 oz., \$1.60.**

950 CHOICE HYBRIDS. Mixed. A choice mixture of all shades, ranging in color from pale lavender to indigo-blue. **Pkt., 10c; 1/8 oz., 40c; 1/4 oz., 75c.**

Loose Spray Delphiniums

(Excellent for Cutting)

951 BELLADONNA (Cliveden Beauty). This is the freest and most continuous blooming Hardy Larkspur. The clear turquoise-blue of its flowers is not equalled for delicacy and beauty. **Pkt., 15c; 2 pkts., 25c; 1/8 oz., 60c; 1/4 oz., \$1.00.**

952 BLUE GEOTTO. Deep blue; bee royal purple, with a cream center. **Pkt., 20c.**

953 BELLAMOSUM. This is a rich, deep blue form of the popular light blue Belladonna, having the same free-blooming and other good qualities. **Pkt., 20c; 2 pkts., 50c; 1/8 oz., 60c; 1/4 oz., \$1.00.**

954 CAMBRIDGE BLUE. It is a rich clear blue, growing about 2 to 3 feet high. Excellent for cutting. **Pkt., 15c; 1/8 oz., 60c.**

955 CHINESE WHITE. This variety grows 12 inches tall, bearing elegant graceful spikes set with large white blooms. Flowers freely from June until September. It is fine for beds, borders and cutting. **Pkt., 10c; 1/4 oz., 40c.**

DELPHINIUM, ANNUAL. See Larkspur, page 33.



Delphinium, Blackmore & Langdon's Strain

CULTURAL DIRECTIONS. Delphiniums thrive in rich, deeply cultivated soil; however, any soil, even hot and sandy, if well watered and fertilized, will give excellent results.

If the flowering spikes are cut after blooming to within 8 to 10 inches from the soil, fertilized and watered, fresh growth will then be produced, which will give blossoms. Coal ashes strewn over the crown will protect the plants from slugs through the winter and spring, also forming a natural drainage of excess moisture from the crowns.

Digitalis - Foxglove

964 SHIRLEY STRAIN. The plants attain a height of 5 to 7 feet, with spikes 3 to 4 feet long carrying flowers of giant size, ranging in color from white to dark rose and handsomely blotched and spotted cream, maroon and chocolate. **Pkt., 15c; 1/8 oz., 25c.**

965 WHITE. **Pkt., 10c; 1/8 oz., 25c.**

966 PURPLE. **Pkt., 10c; 1/8 oz., 25c.**

967 ROSE. **Pkt., 10c; 1/8 oz., 25c.**

968 MIXED. **Pkt., 10c; 1/8 oz., 40c.**

Doronicum Pardalianches

969 GOLDEN BUNCH. An excellent perennial which produces a profusion of long-stemmed flowers in May and June. Doronicum Golden Bunch has innumerable flowers of a brilliant canary-yellow. It makes large bushes of about 24 to 32 inches high and is ideal for cut flowers and perennial borders. **Pkt., 50c.**

PERENNIAL GARDENS

By H. S. Orloff

Following the simple directions in this book insures a perennial garden crowded with bloom, in which the colors make a perfectly blended picture. First come plans, showing how to locate and lay out the garden; then clear directions for preparing the soil, fertilizing, planting, cultivating, transplanting and propagation. 18 illustrations, 90 pages. **\$1.25.**



Doronicum, Golden Bunch



Dianthus Deltoides—Maiden Pink

Dianthus - Hardy Garden Pinks

Every garden should include some of the pinks because they are so easily grown and make such a wonderful display with their bright colored flowers. The plants are covered with sweet-scented flowers all during the summer. Grows about 1 foot high.

®956 **ALLWOODI**. Mixed. A splendid strain, being half carnation and half pink. 75 per cent come double. **Pkt., 35c.**

BARBATUS. See Sweet William, page 51.

957 **HIGHLAND QUEEN**. The most brilliant perennial Dianthus in cultivation, bearing in profusion flowers of a lustrous scarlet-vermillion color, which captivates the beholder at first sight. It is extremely hardy, of vigorous growth, and ideal for bedding, borders and the rock garden, continuing in bloom, as it does, from end of May until frost. **Pkt., 25c.**

958 **HIGHLAND HYBRIDS**. Tall strong-stemmed Pinks in a mixture of colors, beautifully marked and zoned; of the same habits as Highland Queen. **Pkt., 20c.**

®959 **PLUMARIUS** (Pheasant's Eye Pink). A semi-double hardy variety, clove-scented. Flowers bluish white, shaded with crimson and maroon. **Pkt., 10c; ¼ oz., 25c.**

Dianthus Species

These well-known mountain plants are for the sunny border or sunny, exposed places in the rock garden or rock wall. They flower generally after the spring flowers are over and some are very fragrant. While having all the outward characteristics of high alpine plants, the varieties we list are as friendly and easily grown as Arabis or Alyssum. Hardy perennials.

CULTURE. Easily raised from seed, germinating quickly. Plant in ordinary good soil, which contains some lime and which should be well drained.

®960 **CAESIUS** (Cheddar Pink). Pleasing to the eye at all seasons with its tufts of grey, narrow leaves and rose-pink, fringed, spice-scented blossoms. Good for a south wall, or any dry, hot place on the rock garden. Will vary from 5 to 10 inches high. Late May to early July. **Pkt., 10c; ½ oz., 35c; ¼ oz., 50c.**

DIANTHUS SPECIES—Continued.

®961 **DELTOIDES** (Maiden Pink). A trim sturdy dwarf plant. Deep pink, crimson-centered flowers borne in abundance. Foliage forms a dense carpet. Easily grown on the rockery. Requires sunny position. 6 to 9 inches high. May and June. **Pkt., 15c; ½ oz., 50c.**

962 **DELIGHT**. Will grow about nine inches high of neat erect habit, will bloom from June to October. Flowers ½ inch wide in shades from the palest pink down to the deepest purple and reds. **Pkt., 25c.**

963 **SUPERBUS, LOVELINESS**. The plants are 12 to 15 inches tall, of good branching habit and very free-flowering. The shaggy appearing, finely fringed flowers of delicate rosy lilac are highly sweet-scented and measure from 1½ to 2 inches across. **Pkt., 15c.**

ANNUAL PINKS. See page 31.

Gaillardia - Blanket Flower

The Gaillardias are wonderful for cut flowers, blooming right through until frost, and adapt themselves to almost any kind of soil.

970 **MONARCH STRAIN MIXED**. Many years have been spent to evolve a strain of mixed perennial Gaillardia which would produce from seed, plants that, in form and flower, would equal the quality to be found in the better-named varieties. This strain contains those characteristics and each and every flower is perfect in form and coloring, and the plants have a robustness seldom found in Gaillardia. The blooms are large and full petalled, and it is almost impossible to find any of the objectionable wheeled forms that so frequently appear in mixtures from seed.

The ground coloring is, of course, golden yellow in varying tones, but the zones differ both in color and character to an amazing degree. **Pkt., 20c.**

971 **SUNSET**. A pure yellow perennial Gaillardia of good form. **Pkt., 15c.**

972 **"TORCHLIGHT"**. In "Torchlight," however, the stems are much stronger and stiffer than in any variety hitherto produced, making the habit much more compact and they attain a length of 2 to 2½ feet. The flowers are golden-yellow with a rich maroon-red center and often measure as much as 5 inches across. **Pkt., 15c.**

973 **PORTOLA HYBRIDS**. A superb new variety bearing flowers of immense size on long stems. The colors range through shades of bronze-red with golden tips; very robust. Hardy perennial. **Pkt., 15c.**



Gaillardia, Torchlight

GAILLARDIA—Continued.

974 **GRANDIFLORA**. Superb mixed hardy perennial. **Pkt., 10c; ¼ oz., 25c.**

®975 **GOBLIN**. This is the first dwarf, compact variety of Gaillardia especially suited for the rockery. The neat plants reach a height of 12-15 inches and are covered with large showy yellow bordered red flowers. **Pkt., 15c.**

Gerbera - Transvaal Daisy

976 **JAMESONI**. Large daisy-like blooms on long stems in shades of yellow and red, attracting attention everywhere. Thrives well as a pot plant or in the open, if provided with winter protection. Height, 18 inches. Half-hardy perennial. **Pkt., 40c.**

Geum - Avens

Geums have become indispensable border plants. The sorts named below bloom from early summer till late autumn, and the flowers, both for their purity of color and graceful poise, are much prized for cutting. Hardy perennial.

®977 **DOUBLE, MRS. BRADSHAW**. The orange-scarlet flowers are very large and full, comes quite true from seeds and blooms the first year. This is a great advance over any other Geum seedling. Height 18 inches. **Pkt., 10c; 1/16 oz., 35c.**

®978 **DOUBLE LADY STRATHEDEN**. Fine, rich golden-yellow flowers, which match in other respects the popular scarlet variety, Mrs. Bradshaw, and will become as general a favorite. Height, 18 inches. **Pkt., 15c; 1/16 oz., 50c.**

979 **GEUM, ORANGE QUEEN**. This very fine new variety of a shade intermediate between that of Mrs. Bradshaw and Lady Stratheden, a bright orange-scarlet, has been in large demand during the past season. **Pkt. 15c; 1/16 oz., 50c.**

PLEASE NOTE

All 10c packets, 3 pkts. for \$0.25
All 15c packets, 2 pkts. for25
All 20c packets, 3 pkts. for50
All 25c packets, 3 pkts. for65
All 35c packets, 3 pkts. for 1.00

2979 COLLECTION

Twelve Easily Grown Hardy Perennials

AGROSTEMMA. Mullein Pink.

COLUMBINE. Long spurred.

COROEOPSIS. Mayfield Giant.

DELPHINIUM. Hybrid.

DIANTHUS. Pheasant's Eye Pink.

FOXGLOVE. Shirley Strain.

CANTERBURY BELLS. Cup-and-Saucer.

PLATYCODON. Bellflower.

POPPY. Orientale.

SHASTA DAISY. Conqueror.

SWEET ROCKET.

SWEET WILLIAM.

One pkt. each of these 12 varieties, value \$1.30 for \$1.00.



Double Hollyhocks

Gypsophila - Baby's Breath

Pretty free-flowering plants, succeeding in any garden soil. Their misty white panicles of bloom are largely used for mixing with other cut flowers.

990 **PACIFICA**. This perennial Baby's Breath comes into flower after the Paniculata varieties have passed. Will bloom the first season from seed and is perfectly hardy. The plant reaches a height of 3½ feet, and it is a veritable cloud of numerous rose-colored flowers, which are excellent in bouquets for a filler. **Pkt., 20c.**

981 **PANICULATA**. Single. White flowers, fine for bouquets; blooms first year if sown early. Hardy perennial. **Pkt., 10c; ¼ oz., 25c; oz., 60c.**

982 **PANICULATA**, Double. Pure white, giving a very large percentage of double flowers. Hardy perennial. **Pkt., 20c; 1/16 oz., 60c.**

983 **REPENS**. White. A pretty dwarf trailing species for the rockery. It has pinkish white flowers and is a continuous bloomer. Hardy perennial. **Pkt., 10c; ½ oz., 35c.**

984 **REPENS ROSEA**. A pale pink form of the above variety, both lovely in the rock garden or on the dry wall. **Pkt., 15c; 1/16 oz., 35c; ½ oz., 60c.**

Helianthemum - Rock or Sun Rose

Low growing, shrubby evergreen perennial plants, loving sunshine and dry, exposed positions. Easily raised from seed, but should be sown right out in the open where they are to bloom, or grown in pots and then set out.

985 **MUTABILE**. Forms a low mat of glossy foliage which is hidden by a mass of rose, pink, white and yellow flowers during early June and July. 8 to 12 inches. **Pkt., 10c; ½ oz., 35c; ¼ oz., 50c.**

Heuchera - Coralbells

A very graceful hardy perennial for rockeries and borders. Foliage pale green, dwarf and compact, above which rise numerous panicles of flowers which are excellent for cutting. Easily grown from seed.

986 **SANGUINEA MAXIMA**. Flowers bright coral-red, very free-flowering, grows in either sun or half shade. 12 to 18 inches. June to September. **Pkt., 25c.**

987 **CHOICE HYBRIDS**. Embrace every shade from white to glowing crimson. **Pkt., 15c; 1/16 oz., 50c.**

Hibiscus - Rose Mallow or Marsh Mallow

988 **GIANT FLOWERING**. Mixed. Showy, ornamental shrub, growing to a large size and blooming the first year from spring-sown seed. Hardy as an oak and will thrive in any soil. The flowers often measure 8 to 10 inches across, are gorgeous in colors and bloom in great profusion from late July to frost. Mixed colors. **Pkt., 10c; ¼ oz., 35c.**

Hollyhock

989 **DOUBLE WHITE**. An improved strain producing perfect double flowers. **Pkt., 10c; ¼ oz., 50c.**

990 **NEWPORT PINK**. Pure pink; flower very double. **Pkt., 10c; ¼ oz., 50c.**

991 **DOUBLE SCARLET**. Very brilliant. **Pkt., 10c; ¼ oz., 50c.**

992 **DOUBLE YELLOW**. A bright lemon color. **Pkt., 10c; ¼ oz., 50c.**

993 **DOUBLE MIXED**. Comprises all shades. **Pkt., 10c; ¼ oz., 40c.**

994 **SINGLE HOLLYHOCKS**. Mixed. **Pkt., 10c; ¼ oz., 25c.**

Honesty - Lunaria

995 **BIENNIS ALBA** (Saint Peter's Penny). Hardy perennial admired for its silvery seed pods, used for winter bouquets. Beautiful cross-shaped flower. Sow in open ground in May. Protect over winter. **Pkt., 10c; ¼ oz., 35c.**

Iberis - Hardy Candytuft

Low evergreen, shrubby perennial plants which are very valuable for dry sunny places, that are well-drained. The plants should be clipped over after flowering, in order to keep them compact and slightly. Easily raised from seed.

996 **JUCUNDA**. Pink. Very dwarf. **Pkt., 20c.**

997 **SEMPERVIRENS**. A splendid shrubby plant bearing dense clusters of china white blossoms, which cover almost entirely the dark, shining evergreen foliage. It is a good border plant, fine for dry walls, and the rock garden. Will grow either in a sunny or half-shaded position, 10 to 12 inches. May and early June. **Pkt., 15c; ½ oz., 60c.**

998 **GIBALTARICA**. A very showy and large flowering variety with lilac-pink blossoms. A less hardy sort, needing protection in winter. It must be given the hottest and driest position. Prefers a light soil. 10 to 12 inches. May and June. **Pkt., 15c; ½ oz., 40c.**

Lathyrus Latifolius

(Everlasting, or Hardy Sweet Pea)

Showy, free-flowering hardy perennial climbers for covering old stumps, fences, etc.; continually in bloom; fine for cutting.

999 **MIXED**. All colors. **Pkt., 10c; ¼ oz., 25c.**

Lavender - Lavandula Vera

1000 Well known, sweet-scented, hardy perennials; should be extensively grown in the mixed border. 3 ft. **Pkt., 10c; ¼ oz., 25c.**

Linum - Flax

Showy, free-flowering plants with feathery foliage, suitable for dry, sunny borders or rock gardens. Will not thrive in heavy, damp soils.

1006 **FLAVUM**. Gay yellow flowers in loose clusters. Foliage dark green, forming a dwarf group in the perennial border. Thrives in a sunny situation in light rich soil. Hardy perennial. **Pkt., 15c; ½ oz., 60c.**

1007 **PERENNE**. Bright blue flowers. Hardy perennial. 18 in. **Pkt., 10c; ¼ oz., 25c.**



Iberis Sempervirens



Lunaria - Honesty or Money Plant

Liatris - Blazing Star

1001 SCARIOSA. Spikes of deep purple flowers. 3 to 4 feet, August and September. Hardy perennial. **Pkt., 15c.**

Lilium

Lilies do exceedingly well in the hardy perennial border. We recommend that they be planted among the hardy perennials as the shade from the surrounding plants is necessary for their welfare. Lilies are very showy and hardy and should be planted freely in the garden.

1002 HENRYI. Rich deep orange-yellow with a few brown spots; blooms in June; height 5 to 6 ft. **Pkt., 25c.**

1003 PHILIPPINENSE FORMOSANUM. Long white trumpet flowers of purest white, slightly marked externally with reddish brown. Very refined and graceful. Will flower from seed within 6 to 8 months. **Pkt., 35c.**

1004 REGALE (Regal Lily). It is absolutely hardy and is excellent for forcing. The flowers are white, slightly suffused with pink, with a beautiful shade of canary-yellow at the center, and extending part way up the trumpet. It is delightfully perfumed, reminding one of the jasmine, and lacking the heavy, oppressive odor of most Lilies. Blooms out-of-doors early in July, and seedling bulbs will flower the second year. Lift the bulbets in fall and replant to greater depth in their permanent location. **Pkt., 15c; 1/8 oz., 35c.**

1005 TENUIFOLIUM (Coral Lily of Siberia). It is a gem. Perfectly hardy. One of the earliest to flower. 24 in. high with the flowers up and down on the stem. Blooms are deep scarlet and have recurved petals of waxy texture. **Pkt., 15c.**

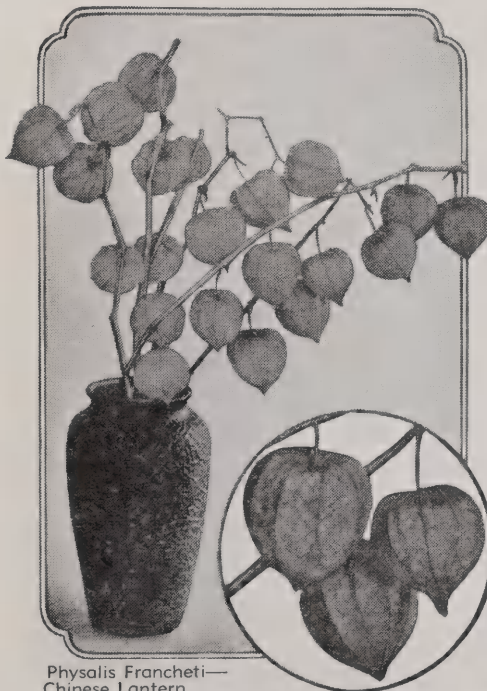
Lychnis

A fine old-fashioned flower, bearing large heads of brilliantly colored flowers, that live up to the border. Hardy perennial.

1013 VISCARIA SPLENDENS. Bright rose-pink. **Pkt., 10c; 1/4 oz., 25c.**

Myosotis - Forget-Me-Not

®1014 PALUSTRIS SEMPERFLORENS. An ever-blooming variety, beginning to flower in May and continuing till autumn. Large clear blue flowers in pretty sprays. Perennial. **Pkt., 10c; 1/8 oz., 50c.**



Physalis Francheti—
Chinese Lantern

Russell Lupins

This new strain of perennial Lupins, as is now widely known, caused a sensation in horticultural circles. Raised by Mr. G. Russell of York, England, and are the results of twenty years work of a little known gardener whose name is likely to become a byword amongst flower lovers. Awarded the Royal Horticultural Society's Gold Medal, June, 1937. The long closely furnished spikes flower in a great variety of rich colors, deep yellows, oranges, reds and brilliant bi-colors never seen in Lupins before. The flowers are large with flat, fan-like back-standards, and, unlike all other Lupins, most of the spikes retain their flowers throughout the whole period of development. Original stock.

1008 "RUSSELL." Grown from originator's stock seed. A fine collection. 50 Seeds, 25c.

Lupinus Polyphyllus

Most beautiful hardy border plants producing tufts of soft green foliage, from which arise in continuous succession the stately spikes of bloom. Do not disturb plants after they are once established. June and September.

1009 BLUE. **Pkt., 10c; 1/4 oz., 25c.**

1010 PINK. **Pkt., 15c; 1/4 oz., 40c.**

1011 WHITE. **Pkt., 10c; 1/4 oz., 25c.**

1012 DOWNER'S HYBRIDS. Perpetual flowering new hybrids. **Pkt., 15c; 1/4 oz., 45c.**

For more beautiful and luxuriant Sweet Peas and Lupinus, inoculate with Nitragin. See page 53.

Nepeta - Catnip

®1015 NERVOSA. A splendid plant for the larger type of Rock Garden and much superior for this purpose to Nepeta Mussini. The flowers are of a clear light blue and have a brighter and more attractive effect than the latter. The plant continues in bloom from midsummer until the early autumn. Thrives in any light garden soil in a sunny situation. Hardy perennial. **Pkt., 15c.**

Nierembergia

(Blue Cup Flower)

1016 HIPPOMANICA. Very neat and tidy plant forming a dense mat four to six inches high and about one foot across. Literally covered with beautiful lavender-blue cup-shaped flowers with a touch of yellow in the center. Flowers grow 1 1/2 to 2 inches across and are borne most profusely through the summer and continue to bloom until heavy frost of late fall. Ideal for the rock garden, borders, edgings and very effective in pots or baskets. A hardy perennial blooming in about 15 weeks after the seed is sown. **Pkt., 20c.**

Oenothera-Evening Primrose

The Oenotheras are chiefly used in the rockery and border. All require a well-drained light soil intermixed with well-decayed manure. They are apt to perish in winter if grown in heavy, damp soils.

®1017 MISSOURIENSIS. A low species with prostrate ascending branches. A profuse bloomer. Solitary yellow flowers often 4 inches across. Height, 10 inches; in bloom from June until August. Hardy perennial. **Pkt., 15c; 1/8 oz., 65c.**

FANSIES, TUFTED. See Viola, page 51.

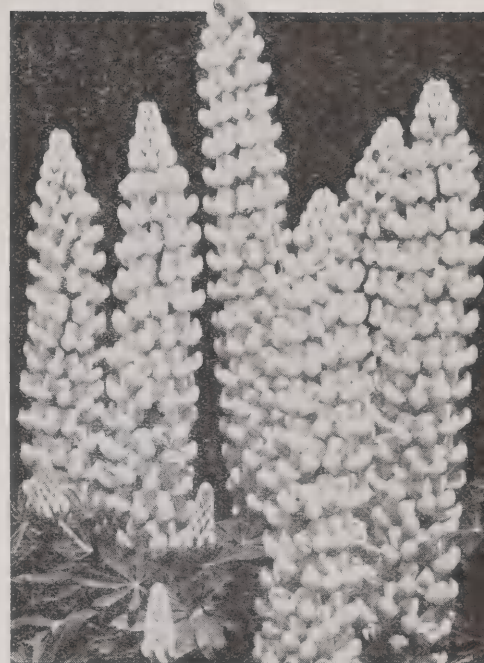
Phlox, Perennial

1019 DECUSSATA MIXED. Contains all the new brilliant colors; large flowering. **Pkt., 15c; 1/4 oz., 60c.**

Pentstemon - Beard Tongue

1018 GLOXINOIDES, "SENSATION." Gloxinia-like flowers in a very wide range of bright colors, including rose, red, carmine, pink, lilac, purple, etc. **Pkt., 15c; 2 pkts., 25c.**

PETUNIA. See pages 36, 37.



Russell Lupins

Physalis - Chinese Lantern Plant

1020 FRANCHETI. An ornamental plant forming dense bushes about two feet high, producing freely its bright orange-scarlet lantern-like fruits, which can be cut and dried for winter bouquets; highly interesting. Perennial. **Pkt., 10c; 1/4 oz., 35c.**

Physostegia - False Dragon Head

One of the prettiest hardy perennials and gaining in popularity as it becomes better known. It forms dense bushes 3 to 4 feet high, bearing freely during the summer months spikes of delicate rosy lilac or white tubular flowers, not unlike a gigantic heather.

1021 VIRGINICA. Rose-lilac. **Pkt., 10c; 1/8 oz., 50c.**

Platycodon - Balloon Flower or Japanese Bellflower

One of the best hardy perennials, producing very showy flowers during the whole season. They form large clumps and are excellent for planting in permanent borders or among shrubbery; easily raised from seed, which begins blooming in August if sown outdoors in April.

1022 GRANDIFLORUM BLUE. Large deep blue flowers. **Pkt., 10c; 1/4 oz., 40c.**

1023 GRANDIFLORUM ALBUM. Pure white. **Pkt., 10c; 1/8 oz., 40c.**

®1024 MARIESI. A beautiful dwarf species, with broad, thick foliage and large, deep violet-blue flowers on 12-inch stems in great profusion throughout the entire summer. Plant in front of the border or in the rock garden. **Pkt., 15c; 1/16 oz., 65c.**



Pyrethrum, Single and Double Painted Daisies

Perennial Poppies

Oriental Poppies (*Papaver Orientale*)

These are highly decorative. Their huge, brightly colored flowers are borne profusely during May and June. Sow where to bloom. Height, 3 feet.

1025 BEAUTY OF LIVERMORE. Crimson, black blotch. **Pkt., 15c.**

1026 ORIENTALE, PERRY'S WHITE. The flowers are of a fine satiny white with a crimson-maroon blotch at the base of each petal. **Pkt., 25c.**

1027 SALMON QUEEN. Lovely salmon-yellow. **Pkt., 20c.**

1028 ORIENTALE SCARLET. Very hardy, producing showy scarlet flowers. **Pkt., 10c; 1/8 oz., 25c.**

1029 ORIENTALE HYBRIDS. Mixed colors. **Pkt., 10c; 1/8 oz., 40c.**

Iceland Poppies - *Papaver Nudicaule*

Graceful light green tufts of foliage; large, gaily colored flowers on stems 1 foot tall. Bloom for many months.

1030 FAKENHAM HYBRIDS. A blend of new tints, such as apricot, biscuit, mauve, deep tangerine, all shades of lemon and many others. **Pkt., 10c.**

Potentilla

A hardy perennial trailing plant which covers the ground rapidly, sending out many roots. Potentillas resemble the strawberry plants, especially in the manner of growth and the foliage.

®1031 NEPALENSIS, MISS WILLMOTT. Flowers salmon-pink, very freely produced. **Pkt., 15c; 1/16 oz., 35c.**

Pyrethrum - Painted Daisy

1039 HYBRIDUM. Single and double varieties, mixed. Hardy perennial, bearing large daisy-like flowers, ranging in color from white to deep red, with bright yellow centers; blooms in May and June, and again in the fall; and is one of the most graceful and long-lasting cut flowers. 2 feet. **Pkt., 15c; 1/8 oz., 50c.**

DOWN THE PRIMROSE PATH

Primula - Hardy Primrose

The Primrose is a splendid plant for naturalizing near shrubs or shaded nooks and moist places on the rockery. Primroses are not at home in the open herbaceous borders, but thrive in sheltered, lightly-wooded places, where they may grow among the Violets, Hepaticas and Bloodroot. They generally establish themselves in damp and shaded positions which are generally most difficult to fill. Perennial.

®1032 CASHMERIANA. Large purplish blue flowers in globe-shaped clusters. Foliage beautiful. Thrives in moist loam having good drainage; prefers a half-shaded situation. Blooms early. 8 to 12 inches high. **Pkt., 35c.**

®1033 CORTUSOIDES. Broad soft foliage in a rosette close to the ground. Flowers in early summer, deep rose; prefers light, rich, well drained soil, in a half-shaded position in the border or rockery. 6 to 10 inches high. **Pkt., 25c.**

®1034 VULGARIS. The old English Primrose with pale yellow flowers, 6 to 9 inches high. Grows in half shade. Mid-April to June. **Pkt., 15c; 1/16 oz., 40c; 1/8 oz., 65c.**

Polyanthus

(Bunch Primrose)

Showy, free-flowering perennials that should be used largely in borders, wild gardens and rockeries. If your soil is light and dry and you have no shaded situations, do not try to grow the true Primroses as offered above, but confine your efforts to the Polyanthus that we list below. The Polyanthus or Bunch Primroses will thrive in full sun if they have some moisture at the root, if not, they must be given the comfort of partial shade.

®1035 MRS. BERKELEY'S STRAIN. The seed of this strain is saved only from the largest flowers having the best form and special pains are taken to ensure as wide a range of colors as possible, including brilliant shades of red, orange and bronze, as well as the richest maroons and yellows, and pure white. **Pkt., 35c.**

®1036 MUNSTEAD STRAIN MIXED. This strain of Bunch Primroses has been perfected in the gardens of Miss Jekvill of England. The flowers show shades of yellow, from cream to dark orange. 6 to 10 inches. Late April and May. **Pkt., 35c.**

®1037 VERIS. (Cowslip.) Mixed shades of yellow, very fragrant. 6 to 10 inches. Late April and May. **Pkt., 15c.**

1038 GIANT BOUQUET. A magnificent development of this old garden favorite, the flowers often 2 inches across. They are produced in great numbers and display an immense variety of color from white to cream, yellow, scarlet, purple and crimson. **Pkt., 25c.**

Our Primroses are pure strains from the best English growers.

Saponaria — Rock Soapwort

®1040 OCYMOIDES SPLENDENS. Elegant trailing perennial with pretty rich rose-colored flowers; suitable for rockeries. **Pkt., 10c; 1/8 oz., 30c.**

SHASTA DAISY. See Chrysanthemum, page 45.

Perennial Scabiosa

1041 ISAAC HOUSE STRAIN. A wonderful improvement in perennial Scabiosa. They are more vigorous in their plant growth, having longer and stouter stems with the average size of flower more than a third larger than the best strain of Caucasia we have heretofore seen. The outer edges are ruffled and fringed and the colors range from a very light lavender to a dark blue. **Pkt., 25c.**

1042 COLUMBARIA. This is a South African form of the European Scabiosa and although reminiscent of Caucasia, is a distinct type. It can be briefly described as a hardy, low growing perennial with fine, light green foliage, some of the flowers measuring from two and a half inches across with short, compact petals, borne on long, slender, but strong stems. We offer this choice perennial in a beautiful pink shade which is a new color in Perennial Scabiosa. **Pkt., 20c.**

1043 CAUCASICA BLUE PERFECTION. 3 feet. Especially valuable for cutting, the blooms lasting an unusually long time in water. **Pkt., 15c.**

1044 CAUCASICA ALBA. A large pure white variety; the flowers, three to four inches across on long stems, are exquisite for vases, lasting a long time. **Pkt., 15c.**

SEDUM

Sedums vary in habit from the dwarf creeping varieties to those of upright growth. Some are evergreen and others of a deciduous growth with more or less fleshy leaves. The dwarf kinds are used as edgings on rockeries and dry walls and are especially suitable for hot, dry situations.

1045 A Mixture of many species. **Pkt., 25c.**

Stokesia - Cornflower Aster

1046 CYANEA. This is not new, but is a rare and beautiful hardy perennial. The plant grows about 24 inches high, each bearing from 20 to 30 handsome lavender-blue cornflower-like blossoms; in bloom from July till frost. One of the choicest subjects for the hardy border and indispensable for cutting. **Pkt., 10c; 1/8 oz., 25c.**

Sweet Rocket - *Hesperis*

Old-fashioned garden plants; growing about 3 feet high, bearing spikes of showy fragrant flowers. Excellent for naturalizing among shrubbery or for planting in a permanent border. Hardy perennial.

1047 VIOLET. **Pkt., 10c; 1/8 oz., 20c; oz., 60c.**

1048 WHITE. **Pkt., 10c; 1/8 oz., 20c; oz., 60c.**

1049 MIXED. **Pkt., 10c; 1/8 oz., 20c; oz., 60c.**



Primula Cashmeriana

Sweet William - Dianthus Barbatus

A well-known, old-fashioned perennial which has long been used for beds and borders. It is one of the most desirable plants in the garden, is easily grown, very hardy and free-flowering, continuing in bloom for several weeks. The flowers are borne in heads or clusters, sweet scented, in brilliant colors ranging from pure white through pink, crimson, etc., to deep purple. Most of them have two colors in the same flower. They are borne on stiff stems in graceful profusion and the clusters are often 3 to 4 inches across. Useful for cutting. Height 1½ feet.

1050 NEWPORT PINK. A distinct new color which originated in one of the far-famed gardens at Newport, R. I. In color it is what florists call watermelon-pink or salmony rose. Strikingly brilliant and beautiful; the flowers are borne in massive heads on stems 18 inches high. For mid-season mass bedding it has no equal. It is also very effective for cutting. **Pkt., 10c; ¼ oz., 35c.**

1051 HOLBORN GLORY. This strain is a large-flowered selection of the auricula-eyed section, the most beautiful and admired of all Sweet Williams. The individual flowers and trusses are of extraordinary size, while the range of color, all showing a clear, white eye, is truly superb. **Pkt., 10c; ¼ oz., 25c.**

1052 SCARLET BEAUTY. Intense scarlet. **Pkt., 10c; ¼ oz., 35c.**

1053 DOUBLE MIXED. A splendid strain of this beautiful perennial, comprising a great variety of excellent shades. **Pkt., 10c; ¼ oz., 35c.**

Thalictrum - Meadow Rue

Handsome dark foliage resembling the Columbine. The flowers are borne in feathery clusters. Very useful in making bouquets. Its light and graceful habit makes it very valuable in the perennial border or when placed among the shrubbery.

1054 DIPTEROCARPUM. A handsome herbaceous plant, with loose sprays of clear rosy-purple with lemon-yellow stamens and anthers. The plant is of strong growth, about 4 to 5 feet high. The flowers are produced during August and September. Thrives best in a poor soil in a sunny position. **Pkt., 15c.**

Tritoma

(Red-hot Poker, or Torch Lily)

1055 HYBRIDA. The introduction of new, continuous flowering Tritomas has given them a prominent place among hardy bedding plants. It is not generally known that they are readily grown from seed, many flowering the first year if sown early. Of course, for immediate results it will be better to get plants, but raising them from seed is highly interesting. Perennial. **Pkt., 15c; 2 pkts., 25c.**

Trollius - Globe Flower

1056 LEDEBOURI, GOLDEN QUEEN. The plant is very vigorous, grows from 3 to 4 feet in height, but its chief value lies in the size of the flowers, the intense orange color, the extreme floriferousness and the constancy with which it flowers in autumn as well as early summer. It comes practically true to type from seed. Most Trollius are rather uncertain to raise from seed when sown in the spring, but one of the greatest recommendations this introduction has is that the seed germinates freely when sown in fall. Seed germinates slowly. Soak in hot water for 5 or 6 hours before sowing. Hardy perennial. **Pkt., 35c.**

1057 MIXED VARIETIES. Saved from a collection of the newest varieties, ranging in color from pale yellow to deep orange; on strong stems 2 feet high. Hardy perennial. Grows best in a half-shaded moist situation. May and June. **Pkt., 15c.**

Tunica - Coat Flower

®1058 SAXIFRAGA. A low growing hardy perennial with narrow dark green foliage, above which rises a multitude of small pale pink blossoms. Grows about 6 inches tall, forming patches a foot or more across. Makes an excellent carpeting plant both for the rockery and as an edger for the border. Full sun. June and July. **Pkt., 10c.**

Valeriana - Garden Heliotrope

Showy hardy perennial; forms small flowers in dense clusters. Very fragrant.

1059 CRIMSON. **Pkt., 10c; ½ oz., 25c.**

Veronica - Speedwell

Hardy perennials, suitable for the border and rock gardens, of easy culture, thriving in any good ordinary soil. Cut back all faded flowers to promote new growth and additional blooms.

®1060 SPICATA. An elegant border plant, growing about 1½ feet high, producing long spikes of bright blue flowers in June and July. Hardy perennial. **Pkt., 15c; 1/16 oz., 60c.**

®1061 PROSTRATA. Prostrate foliage, brilliant blue flowers. 6 to 12 inches. May and June. A delightful perennial for the rockery or dwarf border. **Pkt., 15c.**

Viola Cornuta - Tufted Pansies

A tufted plant of strong growth bearing a profusion of faintly scented flowers the size of small Pansies. Valuable for the border or rock garden. Grows in sun or half shade, 5 to 8 inches high. If the plants are sheared several times during the season so that the flowers do not go to seed, they will bloom from late April until frost. Perennial.

®1062 JERSEY GEM. This variety of recent introduction possesses the dwarf and ever-blooming habits of the Viola Cornuta or Tufted Pansies and the vigorous, bushy growth and roundish foliage of the finest English bedding varieties. Color is pure, rich violet and slightly perfumed. **Pkt., 25c.**

1063 CORNUTA MIXED. A mixture including all shades. **Pkt., 20c.**

Large Flowering Violas

1034 LARGE FLOWERING MIXED. **Pkt., 35c.**

Viola Odorata

(Sweet-scented English Violet)

1065 THE CZAR. Deep violet flowers, large, single flowering and fragrant. Hardy. **Pkt., 25c.**

Wild Flower Seed

A blend of over 100 different and delightful wild flowers of the world. It will delight and surprise you. **Oz., \$1.00; ¼ lb., \$3.75; lb., \$14.00.**

Vines

1066 BALSAM APPLE.

1067 BALSAM PEAR.

1068 CANARY BIRD FLOWER.

1069 CARDINAL CLIMBER.

1070 CYPRESS VINE.

1071 HYACINTH BEAN.

1072 ICE PLANT.

1073 PASSION FLOWER.

1074 SCARLET RUNNER.

1075 THUNBERGIA (Black-Eyed Susan).

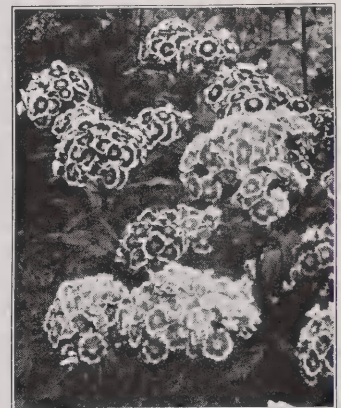
Price any of the above, **pkt., 10c.**

MOONFLOWERS. See page 34.

MORNING GLORIES. See page 34.



Iritoma—Red Hot Poker



Sweet William, Holborn Glory



Trollius, Golden Queen

GOURD SHOW

Sponsored by The J. Chas. McCullough Seed Company, in collaboration with Ohio, Indiana, Kentucky and West Virginia Garden Clubs.

TIME November 13th, 14th, 15th, 17th, 18th

PLACE McCullough Seed Co.
230 E. 4th St., Cincinnati, Ohio

SCHEDULE FIVE SECTIONS

AWARDS

Will be given for First, Second and Third winners in each section.

RULES

OPEN TO ALL

Entries must be in place by Thursday, November 13th.

Send your cured gourds to above address with carrying charges prepaid. No entry fee required. Any number of gourds may be entered, but only three entries to a class by any one person. All gourds not removed at close of show will be held for the owner only until November 30th, 1941.

Judges will be chosen from the Garden Clubs. The decision of the judges will be final. Write for entry tags.

(1) Large Varieties

- (A) Long types.
- (B) Thick, heavy types.

(2) Small Varieties

- (A) Collections (natural color).
- (B) Collections (waxed or coated) container permitted.

(3) Arrangements

Artistic, with other material (gourds predominating)

(4) Old Gourds

Any kind and shape. Must have age and where grown.

(5) Novelties

- (A) Patio or charm strings.
- (B) Utensils.
- (C) Miscellaneous.

Gourds
Are
Interesting
in
the
Garden



Ornamental Gourds

Gourds
Are
Decorative
in
the
House

Seeds of Curious and Ornamental Gourds

Interesting in the Garden—Decorative in the House

Rapid growing annual climbers suitable for sowing around arbors, trellises, fencing, etc. Large fruited gourds are used as dippers, bird houses, etc., and the small-fruited gourds are enormously popular for table decorations.

Culture. Gourd seeds are usually sown in the open ground in May. In order to increase the size of the gourds, holes may be dug 18 inches deep and filled with manure upon which is placed a layer of soil 6 to 8 inches thick. In this soil the seed is sown 2 or 3 seeds to each hole. For a normal crop of gourds this procedure is not necessary as they will thrive in any good garden loam. For an early crop seed may be sown in pots placed in hotbeds and set out into the open ground when all danger of frost is past. This adds to the time of maturing the gourds on the vine. When very large fruits are desired, only two or three should be left on each plant. The branches

should then be cut a few leaves beyond the last fruit. Do not let vines suffer for lack of water.

Successful Growing Hints

To insure healthy growing vines, insects and fungus must be controlled. The following pests and their control is advised: Downy Mildew and Mosaic—Bordeaux spray. Cucumber and Squash Beetle—Pyrocid or Rotenone dust. Squash Borer and Root Lice—Nicotine Sulphate at basic parts of vines. Seed Treatment—Use Semesan.

Small Fruited Gourds

(C-Pepo)

- 1084 **APPLE SHAPED.** Striped.
- 1085 **BOTTLE.** Miniature.
- 1086 **FLAT STRIPED.** Flat, round, green and white stripes.
- 1087 **EGG SHAPED.**
- 1088 **HORNED CUCUMBER.**
- 1089 **ORANGE.** In color and shape.
- 1090 **ORNAMENTAL POMEGRANATE or QUEEN'S SWEET POCKET MELON.** Fruit deliciously perfumed and may be carried in the pocket or laid among the linens.
- 1091 **FEAR.** Striped green and white.
- 1092 **FEAR.** Striped yellow and green.
- 1093 **FEAR.** White.
- 1094 **SPOON.** Small, ball-shaped, long slender neck. By slicing off a side a satisfactory spoon is made.
- 1095 **TURK'S TURBAN.** Mauve-red and green.
- 1096 **WARTED.** Mixed colors and shapes.

Any of the above: Pkt., 10c; 1 oz., 35c.

- 1098 **Buddha or Sacred Gourd.** Ten fingers or crown of thorns.
- 1099 **Mexican.** Blue seeded, oxheart shaped.
- 1101 **Unicorn Seeds** (not gourds).
- 1102 **Indian Variegated Corn.**
- 1103 **Hybrids.** Ornamental.
- 1104 **Mexican Spoon.**

Any of the above: Pkt., 15c; 1 oz., 50c.

- 1097 **SMALL VARIETIES MIXED.** Pkt., 10c; oz., 25c.

Large Fruited Gourds

(Lagenaria)

- 1105 **ACORN or LARGE TURK'S TURBAN.** Yellow and orange.
- 1106 **BIRD'S NEST.**
- 1107 **BISHOP'S MITRE.** Three-colored, shaped like Bishop's Crown.
- 1108 **CALABASH or FIFE GOURD** (Powder Horn or Pinquin Gourd). Odd shaped fruit used in making pipes.
- 1109 **CAVE MAN'S CLUB.** Knobby club shaped, dark green.
- 1110 **DIPPER.** Used for dippers, also for bird nests.
- 1111 **DISH CLOTH.**
- 1112 **GIANT BOTTLE or CHINESE WATER JUG.**
- 1113 **HERCULES CLUB.** Club shaped, 2 to 3 feet long.
- 1114 **MALABAR.** Green striped fruits, 8 to 10 inches long.
- 1115 **SUGAR TROUGH.** Thick shells, very durable.

Price of any of the above: Pkt., 10c; oz., 35c.

- 1116 **GREEN SNAKE.** Fruits up to 10 feet long in fantastic forms. Pkt., 15c; oz., 50c.
- 1117 **LARGE VARIETIES MIXED.** Pkt., 10c; oz., 25c.
- 1118 **Dolphin or Maranka.** Most unique gourds grown; deep green.
- 1120 **Pelican Neck.**
- 1121 **Long Handled Dippers.**
- 1122 **Giant Takitian Bowls.**
- 1123 **Rare Peruvian.**

Any of the above: Pkt., 15c; 1 oz., 50c.

ALL 10c PACKETS ARE 3 FOR 25c; ALL 15c PACKETS ARE 2 FOR 25c. When Ordering, See Page 64 of This Catalog.

Agricultural Seeds

Prices on all Field Seeds are subject to fluctuations. We will be glad to quote you firm prices on request. Orders entrusted to us will be filled at the lowest price on the day received.



ACME Brand FARM SEEDS Tested for Your Protection

Our Seed Testing Laboratory is qualified under the rules of the Official Analysts Association of North America.



Look for this emblem, and the red, white, and blue tag attached to the bag, denoting United States Verified Origin Red Clover and Alfalfa. We issue these certificates under United States Department of Agriculture supervision.

This is for your protection. You should know where the seed you buy is grown.

LESPEDEZA. Korean is an annual legume, and under favorable conditions will reseed itself. It is best adapted to thin or acid soils. 15 to 25 pounds usually sown per acre from February to April 15th. **Scrificia** is a perennial Lespedeza. Scarified seed can be sown at the rate of 4 to 6 pounds per acre in spring after danger of frost and as late as April 15th.

RED CLOVER (*Trifolium pratense*). Too well known to need extended description. Best sown in the spring, and requires 8 to 12 lbs. per acre alone or 5 to 6 lbs. per acre if in mixture with grasses.

MAMMOTH OR SAPLING CLOVER. Similar to Red Clover but of larger growth and blooms three weeks later, hence more valuable for sowing with Timothy. It also forms better aftermath than Red Clover. Requires same quantity of seed as Red Clover per acre.

ALSIKE CLOVER (*Trifolium hybridum*). One of the best Clovers for sowing with Timothy, as they mature at the same time. Blossoms flesh color. It is very hardy and will do well on thin or poorly drained soils making very satisfactory pasturage. It is also valuable for hay. If sown alone requires 4 to 6 lbs. per acre or in mixture 2 to 3 lbs. per acre.

CRIMSON CLOVER (*Trifolium incarnatum*). An annual for turning under as a green manure crop or as a winter cover crop sown in July or August, also early spring at rate of 15 to 20 lbs. per acre. It should be cut just before bloom stage for hay.

SWEET CLOVER. It is suitable for almost all classes of soil, except acid, and especially desirable on loamy, sandy or alluvial soils. Formerly it was used mostly for waste lands, but many prominent stock raisers are using it extensively for both pasturage and hay.

Sweet Clover is of vigorous growth and withstands extremes of heat and cold as the tap roots penetrate the soil very deeply, and it does well on both barren hillsides and bottom lands. Matures early. Can be cut two or three times a season; has a delightful and sweet scented odor, and the blossoms are particularly attractive to bees.

Scarified (Hulled) Seed should be sown in the fall, or in the spring after danger of frost is over. It requires 10 to 12 lbs. to the acre.

Unhulled Seed, however, can also be sown at the rate of 20 lbs. per acre during the winter months as frost action is necessary to loosen the hull before it will germinate. Fall sowing with winter wheat has been quite satisfactory in many sections and has become more popular in recent years for winter sowing in general.

We offer the following varieties:

White Blossom (*Melilotus alba*). A biennial legume, growing 5 to 6 feet high. Reseeds itself if left undisturbed. As a hay crop, however, it should be cut before it reaches the bloom stage, otherwise it may be woody and too coarse. It is cured similarly to alfalfa, but requires a little longer time. It is unsurpassed as a soil builder when properly inoculated. When pasturing, the stock should be turned in while the plants are young and tender and pastured continuously.

Yellow Blossom (*Melilotus officinalis*). A biennial not quite so tall growing as the White, but more desirable for pasture as the life season is much longer, producing an abundant yield of forage.

Hubam. An annual Sweet Clover with a growth of 3 1/2 to 6 feet. Is particularly good for bees as it blooms the first year. Also excellent as a green manure crop. Most favorable results are obtained by sowing broadcast. Requires 12 to 15 lbs. per acre.

ALFALFA (*Medicago sativa*). Alfalfa is being more generally grown, as experience is teaching our farmers the proper methods to follow. Once established, it is such a profitable crop that every farmer can afford to take great pains to obtain a stand. It requires cutting at least twice the first season, even if not large enough to make hay. Cutting destroys any weeds that may come up in it and gives the Alfalfa a chance. Must be sown at the rate of 10 to 15 pounds per acre when sown broadcast. Different soils do not seem so difficult to overcome, especially where they can be properly drained, pulverized, sweetened and seed inoculated. Alfalfa does not thrive on acid or sour land.

A liberal dressing of fine ground lime will be found a great benefit to the soil. May be sown from April 1st to June 15th for the early spring sowing, either drilled or sown broadcast. If broadcast, cover lightly with a light drag or with single stroke of a harrow.

Much seeding is now done later and many prefer sowing from July 15th to September 15th. When seeded late it gives the grower an opportunity to have his land clean and free from weeds, and if weather conditions are favorable a crop is almost assured.

Alfalfa naturally prefers a deep, sandy or gravelly subsoil. Roots from 3 to 15 feet deep and a good stand on properly selected land should yield from 4 to 5 cuttings a year. We can supply both the Common and Grimm Type Alfalfa of Northwestern and Western origin as well as Ohio and Michigan grown stock.

INOCULATE ALL LEGUME SEEDS WITH

NITRAGIN

1898—FORTY THREE YEARS OF SERVICE—1941

When ordering, Always state name of seed.

It Pays
to
Inoculate
all
Legumes
with
NITRAGIN

ALFALFA, all Clovers

Size	Retail
1/2 bu. each...	\$.30
1 bu. each...	.50
2 1/2 bu. each...	1.00

PEAS (All Varieties) VETCHES (All Varieties)

Size	Retail
1/2 bu. each...	\$.25
1 bu. each...	.35
1 1/2 bu. each...	.55
5 bu. each...	1.50
12 1/2 bu. each...	3.60

BEANS String, Wax, Kidney

Size	Retail
1/2 bu. each...	\$.25
1 bu. each...	.35
5 bu. each...	1.50

LESPEDEZA

Size	Retail
Small (Inoculates up to 50 lb. seed)	\$.45
Large (Inoculates up to 100 lb. seed) .....	.65

SOYBEANS, LIMA BEANS, COW PEAS, PEANUTS

Small. (Inoculates up to 120 lb. seed) \$	.30
*5 bu. each .....	.58
25 bu. each	2.60
(One can)	
*30 bu. each	3.45
(6-5 bu. cans)	

GARDEN SIZE Garden Peas & Beans Sweet Peas & Lupines

Enough for 6 lbs. seed
Retail Price 10c each

*The 30 bu. size as listed above is a carton which contains six 5 bu. size cans.

AGRICULTURAL SEEDS — Continued

Common Alfalfa. Has a purple bloom and tends to develop a single deep tap root system. It is generally found to produce more hay than the Grimm type, except when winter killing takes place.

Grimm Alfalfa. Has a variegated bloom and is characterized by a tendency toward a multiple root system. For this reason it is understood to be harder than the Common type.

OATS, Swedish Type White and Fulghum. Our Oats are carefully selected and well re-cleaned. Do not confuse them with ordinary feed oats. Sow $1\frac{1}{2}$ to $2\frac{1}{2}$ bus. per acre.

OATS, Winter Turf Oats. For fall and spring sowing. 4 to 5 ft. high; straw is very palatable for stock. $1\frac{1}{2}$ to 2 bus. per acre.

VETCH, Hairy or Sand (*Vicia villosa*). Winter annual, adapted to sandy soil and will do much to build up any soil especially when inoculated. Withstands cold weather. Should be sown from late August to middle of September at rate of 15 to 25 lbs. per acre. Can be sown with rye.

Spring Vetch (*Vicia sativa*). Used with oats for producing spring hay.

CANADA FIELD PEAS. Grown with oats will make a fodder or hay which doubles the production of milk. Should be sown in March or early April. 90 pounds of peas to two bushels of oats to the acre. The Peas should be sown first and plowed under about 4 inches deep; the oats then sowed and harrowed in. They will be ready for cutting about the end of June, when oats are in milk and the pods formed on Peas. Write for prices.

SUNFLOWER, Mammoth Russian. The best variety for the farmer. Drill in seed at about 8 to 10 lbs. to acre. It is much relished by poultry and horses. Current prices on request.

BROOM CORN. We carry varieties that are known to produce the finest quality straw, and command the highest prices. Sow 4 to 5 lbs. per acre in drills, rows 3 feet apart. Thin out the stalks to about 70 to the rod. Cultivate same as corn. Cut when seed is in the milk.

MILLET, True Tennessee Cultivated German. (Round Seed). This Millet withstands drought better than all other varieties. It is used as a summer hay crop and particularly adapted to rich or bottom soils. It should be sown thickly and cut when the heads are in bloom, never allowing it to get old or seed to form as this causes a great drain on the soil besides materially injuring the quality of hay. Very useful for cleaning rich, foul lands of weeds as its quick, abundant, luxuriant growth smothers most weeds. Sow one bushel per acre in May, June, or July. Two crops can be seeded on the same land in one season, if desired.

MILLET, German Home Grown. Produces a large head. A very desirable feature is its earliness; the foliage is also very heavy and the leaves broad. It produces an immense amount of excellent fodder which cures very readily.

HUNGARIAN. Specially adapted to rich or alluvial soil. It makes a finer quality of hay than Millet on very rich soil as it does not grow so coarse. Cut at the right time, which is in bloom, and cured properly, it makes a nutritious hay; is especially popular with dairymen. Sow from three-fourths to one bushel per acre in May, June or July.

BUCKWHEAT, Japanese. A splendid crop for poor land. Largely used for bees. Sow in June, July or August at rate of three-fourths to one bushel per acre broadcast, covering with a smoothing harrow. It does not mature grain until the cool nights—hence, too early sowing is not desirable.

KAFFIR CORN. Foliage and stalks do not contain saccharine matter, hence are not so valuable for feeding, but the enormous yield of grain makes it very profitable. The grain is very largely used for poultry and stock feeding, containing a high percentage of starch.

SOY BEANS are becoming more popular each year as a general purpose crop, being valuable not only for hay and forage, but also for soil improvement, following or preceding other crops. They are a valuable pasture crop for hogs as well as other stock, and can be sown by themselves for this purpose; or in the corn rows and the hogs turned into feed on them after the corn is harvested.

The value of Soy Beans as a grain crop makes it particularly adapted to systems of rotation. Like other Legumes, Soy Beans are able to utilize the nitrogen of the air, adding it to the soil. Soy Beans should therefore be inoculated. Actual experiments have shown that legumes not inoculated rob the soil; inoculated they feed the soil. Sow $1\frac{1}{2}$ to 2 bushels per acre broadcast, in drills 45 pounds, after danger of frost is past.

We carry the following varieties in stock. Write for full description and current prices.

Best for Hay Crop: Wilson, Kingwa, Laredo, Black Ebony, and Virginia.

Other Varieties: Manchou, Mandell, Hollybrook, Illini, Scioto, and Dunfield.

COWPEAS—The Great Soil Improving Crop. Grow best on light or sandy soils. Have a high feeding value. Belonging to the bean family, they are nitrogen gathering plants and if inoculated will improve the productiveness of the soil.

We carry the following varieties: **New Eras, Whippoorwill, and Mixed Varieties.**

Sow $1\frac{1}{2}$ bus. per acre after danger of frost. Use Nitragin Inoculator.

RYE, Northern Rosen, Home Grown. Our Rye is carefully selected stock, or well re-cleaned and tested. Do not confuse it with ordinary milling Rye.

BARLEY needs a rich land and lighter than that adapted to wheat. It should be cut before fully ripe, if for hay, as it is then of better quality, and less liable to shell. Sow $1\frac{1}{2}$ to 2 bushels if drilled; 2 to $2\frac{1}{2}$ bushels broadcast. (48 lbs. per bu.)

We usually carry the following spring varieties:

BARLEY, Oederbrucker Bearded. Yields heavily and most commonly used in this section.

BARLEY, Spartan Bearded. But has smooth barbless beards.

BARLEY, Velvet or Barbless. A bearded variety.

Also for fall sowing we offer.

BARLEY, Winter or Fall Bearded. Very desirable in this area because of its yield and quality.

DWARF ESSEX RAPE. Makes excellent pasture for both sheep and hogs, and is a fine conditioner for all livestock, except milk cows. Best results are obtained by planting in two separate fields; pasturing alternately ten days each. Plant any time, early spring to midsummer. Sow 3 pounds per acre in drills; 6 pounds broadcast.

SUDAN GRASS. Sudan Grass produces an immense yield of nutritious hay. It can be cut twice in a season if planted early in the season but after frost danger. Grows 3 to 5 feet high. It is adapted to growing in all kinds of soil but produces the largest yield in warm, temperate latitude. After first cutting it stools enormously and then furnishes exceptionally fine pasture for all stock, except milk cows. It is killed by the first frost. Eight to twelve pounds in drills, $2\frac{1}{2}$ to 3 feet apart or broadcast 20 to 30 pounds per acre.

CANE SEED. Sorghum and fodder types. Amber and Orange are favorite in this section.

ATLAS SORGO. A forage and grain crop, outstanding for its heavy yield. Has a juicy, sweet, leafy stalk, which grows 7 to 10 feet and requires 120 to 130 days to mature. Usually sown 5 to 10 pounds to acre.

SEED FIELD CORN

WHITE VARIETIES

Boone Co. and Johnson Co. White Dent. Two popular Ohio varieties. Large tapering ears, deep kernels slightly dented; medium late maturing.

Hickory King. Yields 2 to 3 ears a stalk; large flat grains on small cob. Extensively used for green table corn or roasting ears, also for early ensilage.

Eureka Ensilage. One of the best silage varieties, yielding record tonnage; late maturing.

Red Cob Ensilage. A very popular variety; excellent for silage or green fodder.

YELLOW VARIETIES

Woodburn Yellow Dent. An early maturing favorite. Medium sized well-filled ears; deep grains, small cob, exceptional yield.

Leaming. An ideal feeding variety. Medium late maturing, large tapering ears, 16 to 22 rows on red cob.

Reid's Yellow Dent. A very popular heavy yielder. Late maturity, long well-filled ears even under adverse conditions.

Yellow Clarage. Medium early maturity. Produces a well-filled medium-sized ear.

SEED CORN TREATMENT REDUCES DISEASE DAMAGE

We recommend Improved Semesan Jr., a dust disinfectant for preventing and controlling the ear, root and stalk rots of field corn. See page 61.

Our Field Corn is carefully selected, tested and graded. Ask for current prices, stating variety in which you are interested.

SEED OF CORN HYBRIDS

We are listing some of the adapted varieties for central states area:

Iowa 939	Ohio W.17	U.S. 65
Illinois 200	Ohio C.14	U.S. 52
Indiana 614	Illinois 960	U.S. 44
Ohio L.31	U.S. 13	Kentucky Y102
Indiana 608	Indiana 813	White 78E

Write for our complete 1941 descriptive circular.

CULTURAL HINTS

Plow or spade your soil deep.
Use plenty of bonemeal.
Plant 6 inches deep, 3 feet apart for miniature varieties, and 4 feet for larger varieties.
Regular cultivation is essential.
Do not water unless extremely necessary.
Add 2 handfuls well balanced (AGRIC) fertilizers around each plant about August 1st. Add 2 handfuls fertilizer (Sacco) around each plant 1st week of September.
Four to six laterals to a plant. Be sure and disbud.

Cactus

COMETEER. Straight Cactus. Reliable grower of amber color. A good commercial. It has good stems. A variety that can stand the hot weather. This is one every grower should have. **Root, 75c.**

JERSEY'S DAINTY. Very beautiful flower. White with faint pink shadings in the center. Foliage and stems good. Easy to grow. **Root, 40c.**

MISS BELGIUM. An orange with perfectly formed flowers. Excellent long stems. Good sturdy grower. A good cut flower. **Root, 50c.**

MRS. HERBERT O'CONNOR. Erect grower. Good stems. Fine form of soft rose-pink deepening at center. Has stood the test in hot climate. **Root, 75c.**

RENATE MULLER. Rose-pink shading to yellow, with fine formation, makes this variety popular. **Root, 60c.**

Formal Decorative

ANNA BENEDICT. Dark rich velvety carmine shading to very dark almost black center. This is an upright clean grower. **Root, 60c.**

BLUE RIVER. One of the most outstanding of dahlias the past season and we highly recommend it. Very large bright mauve with decided blue shading. Stems splendid, profuse blooming. **Root, 75c.**

BUCKEYE KING. Gold with slight apricot suffusions and shading deeper toward center. A variety which produces many large clean appearing flowers of exceptional keeping quality. **Root, 40c.**

ELISSA LANDI. Rich, brilliant salmon-orange, flowers held well out of foliage on stiff strong stems. **Root, 50c.**

KENTUCKY SUN. A fine formed giant light yellow. Good bloomer and excellent stems. Show winner. **Root, 75c.**

MARIE. This variety is very beautiful, having a blend of pink and white that commands attention. Wherever shown, it wins awards. Has all good qualities of a leader. **Root, 40c.**

OAKLEIGH MONARCH. A red of huge dimensions. Great long stems. Excellent growth. One of the sort that men like. Vigorous. **Root, 75c.**

QUEEN CITY. A Dahlia of great distinction. A splendid open grower. It blooms throughout the entire season. Color is a distinctive scarlet-pink, a shade half-way between cherry-red and old rose. Good cut flower. **Root, 75c.**

SULTAN OF HILLCREST. One of the finest formals. Plants laden with blooms of exhibition size. Stems good. Soft autumn with yellow reverse. **Root, 75c.**

VOLCANO. A huge flame-colored giant that has won at numerous shows. Low growing and extremely vigorous. Can stand the elements and produce a fine harvest of bloom. Reliable both in keeping and showing. **Root, \$1.00.**

YELLOW MARVEL. (Petrie.) A beautiful white tipped yellow that is different. Very vigorous grower. Long strong stems. Fine formation. Good root maker. **Root, 50c.**

COLLECTION No. A. Your selection of any 10 dahlias listed at 50c each, value \$5.00, for \$4.00.

Informal Decorative

CALIFORNIA IDOL. Yellow well-formed huge bloom. Low grower but vigorous. Excellent stems. A stand-out among the yellow. **Root, 75c.**

CHEROKEE BRAVE. Here is a red that does not fade or burn. Very artistic form and extra long stems. This dahlia took the shows the past season in the red class. A variety that is reliable. **Root, \$1.75.**

EVA HUNT. A good grower, heavy substance of waxy white. Foliage of dark green. Blooms are large and it is an excellent variety. **Root, 50c.**

DAHLIAS

Roots

Our dahlias are field grown with proper fertilization. They are healthy, true-to-name, and should give satisfaction under average conditions.

FREIDA GEORGE. One of the most beautiful dahlias we had the pleasure of growing. The color is hello and cream, and one has to see it to fully understand the delicate color. The blooms are large, on wonderful stems. One of the very best. **Root, \$1.25.**

J. CHAS. McCULLOUGH (McCullough). One of the most satisfactory dahlias for the amateur grower. With minimum care the plant is always a flowering success. The blossom is a lovely rose-pink and in form much like a chrysanthemum. The foliage is superb. Blooms profusely both early and late. When grown by the dahlia enthusiast the flower develops in loveliness second to none. **Root, 50c.**

LORD OF AUTUMN. Winner wherever shown. Clear yellow with huge blooms. Long stems. An ideal growing variety. **Root, 75c.**

MARGRACE. Color, brilliant scarlet, tipped and striped with gold. In hot weather the gold is not so prominent. It is a very deep flower with an exceptionally fine stem that holds the flower erect to facing. **Root, 75c.**



Royal Purchase Marie Virgo

MILTON J. CROSS. A very outstanding introduction. Color clear gold at center blending to light orange-buff on outer petals. Blooms very large and stems are good. Very fine dahlia. Blooms profusely. **Root, \$1.00.**

TOWER'S EMPIRE. A real acquisition. The color is gold with deep amber in the center. Compares favorably to Jane Cowl in style and habit of growth. Very large with flowers of great depth and wonderful keeping quality. **Root, 50c.**

DAHLIAS FROM SEED: Grow dahlias from seed. Our California "De Luxe" strain has proven sensational. **20 seeds, \$1.00; 100 seeds, \$4.00.** See page 31.

Semi-Cactus

AMELIA EARHART. Winner that has proven its worth. Coral in color and a producer of many large blooms. Outstanding variety. **Root, 75c.**

BUCKEYE STAR. Flesh-pink with or without a yellow center. Probably the most beautiful as well as the most lasting when cut. A superb cut flower, and a fine root maker. **Root, 60c.**

BALLEGO'S SURPRISE. Beautiful snow-white. Perfect form, free flowering on stiff stems. Good cut flowers and one that ranks with the best. **Root, \$1.00.**

CONTROL INSECTS

Use DX pyrethrum spray or Multicide during the growing season. When plants are in bud or bloom, use Pyrocid or Rotenone dust on the flowers.

Grasselli spreader with your contact sprays, insures a more complete kill.

GREATER GLORY. Color deep rose-pink, occasionally shading to sulphur-yellow at the center. Strong healthy bush with fine foliage. Good stem and excellent bloom. Winner of many prizes at the leading Shows. **Root, \$1.50.**

GRETEL. A bright henna-red. This was first described as an improved Miss Belgium, but it is different entirely and a fine reliable variety. Flowers keep long when cut. **Root, 50c.**

ROYAL PURCHASE. Deep straw-yellow; outer petals suffused pink. The petals are long and slender. The blooms average 10 inches and over and are held facing sideways on very long, straight, stiff stems, a great exhibition dahlia. **Root, 75c.**

SATAN. Flaring red, staghorn petal faintly tipped old gold. Stems are long and clean. Vigorous grower. **Root, 40c.**

VIRGO. A beautiful chamois-yellow that is a very vigorous grower with superb stems. Blooms of good formation and keep well when cut. Excellent foliage and insect-proof. A worth-while addition to your garden. **Root, 75c.**

Pompons

BETTY ANNE. A perfect formed light pink that is very popular. A good grower producing abundance of flowers. **Root, 50c.**

BURWOOD. The leading exhibition pom in its color which is creamy yellow shaded with tan. A perfect grower. **Root, 75c.**

DEE DEE. Pale lilac. Centers are full with stems long and erect. One of the larger Pompons better for decorative uses. **Roots, 40c.**

DORIA. Color, deep wine shaded darker at center. Stems are wiry and stiff holding the blooms on top of stem. Centers are unusually full. **Root, 75c.**

HONEY. Pale yellow with faint suffusion of red on edge of petals. Free bloomer, long stems, fine for cutting. **Root, 40c.**

MORNING MIST. White with rosy lavender center, outlined with lavender. Great bloomer. Stiff, wiry stems. Excellent. **Root, 40c.**

MRS. V. BRITAIN. Beautiful mauve-pink of finest form. A real winner. This is a good one. One of the best. **Root, 75c.**

COLLECTION No. B. Your selection of any 5 dahlias listed at 75c each, value \$3.75, for \$3.00.

Miniature

BUCKEYE BABY. The finest formed decorative miniature to date. Autumn colored, it is a real vigorous grower. Winner everywhere. **Root, 40c.**

BABY SAGAMORE. Here is an amber-colored gem that is always covered with fine formed flowers. Extra long stems. Vigorous. **Root, 50c.**

DUBONNET. A beautifully formed cactus variety of a deep oxblood-red color. Should be very popular in the garden. A fine grower. **Root, 50c.**

DAHLIADEL JOY. This yellow miniature is very popular. Semi-cactus in form with fine stems and plenty of blooms. **Root, 50c.**

FAIRY. Begonia-rose, petals tightly quilled. Very artistic and a free bloomer. Stems straight and stiff. Early bloomer. **Root, 50c.**

LITTLE DREAM. A most beautifully formed cactus with splendid growth of bush. Clear pink and white. A beauty. **Root, 75c.**

ORCHID LADY. Amaranth-pink to mallow-pink. Flowering habit excellent. Good strong stems, fine cut flower. **Root, 40c.**

SYLVIA. The most beautiful garnet-red miniature yet introduced. A most prolific bloomer. Flowers average 2 inches in diameter, produced freely from July until frost. **Root, 40c.**

SNOWSPRITE. We know of no semi-cactus miniature which is so dependable as this one. Glistening snow-white in color, with perfect stems and artistic form. Stands out in the garden as it is always in bloom. Centers are always good and flowers remarkably uniform. We recommend this variety for arrangements and a real commercial white. **Root, 75c.**

VERMILION BRILLIANT. A fine scarlet with well-formed flowers and a most constant blooming variety, a formal miniature that is good. **Root, 75c.**

If you want any other variety of Dahlia not catalogued, let us know. We have many others that are excellent for exhibition, commercial or garden use.

Note our collections. They consist of varieties that are good performers. No change permitted.

GLADIOLUS

"EVERYBODY'S ORCHID"

Not less than 6 bulbs at the dozen rate, or 25 at the 100 rate.

Any good garden soil will grow Gladiolus, provided they receive ample sunlight. Plant 3 to 4 inches deep and 4 to 6 inches apart; always give good cultivation. To obtain extra large exhibition blooms it is well to feed plants with a good balanced commercial fertilizer. It is best to support them to insure against injury from the elements. Water copiously about twice per week. Liquid manure or blood meal will help greatly in developing the florets. In cutting spikes, always leave five leaves for continued development of bulbs. When the foliage yellows in the fall, lift bulbs and cut foliage within two inches of bulb. Let them thoroughly dry, then store in a cool, dry place.

From planting time, blooms appear in 70 to 80 days for early varieties; 80 to 90, medium; 90 to 100 for late.

AVE MARIA. Large light blue with purple blotch. This is a favorite of Pfitzer's earlier light blues. It has substance that is above the average for its color, and its spike and placement are good. Per doz., 40c; per 100, \$3.00.

BAGDAD. Smoky old rose shading somewhat darker toward the edge and lighter in the throat. Smooth clear color. Practically a self color though there is a faint creamy blotch marked with pink. Six to eight immense blooms open at a time. Blooms often six inches or more across. Fine propagator. Per doz., 50c; per 100, \$3.50.

BEACON. Clear bright rose-scarlet with large cream blotch. 8 to 10 medium large somewhat ruffled blooms open on a very tall straight though willowy spike. Beacon has proven to be one of the most popular cut flower varieties. One of the real 100 per cent prospects for the commercial market. Per doz., 80c; per 100, \$6.00.

BETTY NUTHALL. Warm coral-pink with pale yellow throat markings and a slight tinge of orange. Six to eight medium large blooms open. Very good propagator. One of the very best commercial varieties grown. Per doz., 30c; per 100, \$2.00.

Queen City Collection

12 PICARDY
6 BLUE ADMIRAL
6 MOTHER MACHREE
12 RED PHIPPS
12 GIANT NYMPH
6 MAID OF ORLEANS

54 large bulbs, \$1.75.

BLUE ADMIRAL. Dark blue, slightly lighter than Pelegrina. Five to six open on a tall always straight stem. Though this does not open so many at a time as Pelegrina, we consider it the best dark blue. Per doz., 60c; per 100, \$4.50.

BRIGHTSIDE. Canary-yellow flushed pure apricot in the upper throat and tips of orange. Tall, straight growing variety. Flowers four to five inches across. Four to eight open at once. A very beautiful variety. Per doz., 60c; per 100, \$4.50.

COMMANDER KOEHL. Massive blood-red. Florets of this fine variety are often six inches across. Spike is exceptionally long and straight. Produces huge spikes. Per doz., 60c; per 100, \$4.50.

DEBONAIR. La-France-pink to shrimp-pink in throat with creamy throat mark. The tall, strong, always straight spike carries six to eight large open flowers. Debonair is truly excellent. Per doz., 50c; per 100, \$3.50.

DREAM OF BEAUTY. Here is a rose-red that bears out its name in every way. Fine grower with large flowers of good texture. Per doz., 60c; per 100, \$4.50.

GOLDEN FRILLS. Early ruffled yellow with bright red throat. One of the most beautiful glads grown. Spikes are strong but a little short. Lends beauty to arrangements. Per doz., 40c; per 100, \$3.00.

GOLDEN DREAM. Tall spike of clear yellow blooms. The edge of the petals is gracefully rolled back. Per doz., 30c; per 100, \$2.00.

GOLDEN CHIMES. A finest yellow to date; beautiful in formation, fine spike, from 8 to 10 flowers opening at one time. Vigorous and a great show variety. Per doz., 70c; per 100, \$5.00.

GIANT NYMPH. Light pink suffused with cream-yellow; large flowers on strong spikes. Per doz., 30c; per 100, \$2.00.

J. S. BACH. Sensational new salmon-red that is fast becoming popular. This giant is worth a place in any garden. Many florets open at a time, and early. Per doz., 70c; per 100, \$5.00.

HERITAGE. Rich warm pure pink shading lighter in upper throat with white throat and midribs. Long spike of bloom with ten good sized blooms open. Stems are strong. A good propagator and a coming popular variety. Even from small bulbs it is extra good. Per doz., 80c; per 100, \$6.00.

LA PALOMA. Fine, tall orange primulinus grandiflorus variety. The color is most attractive, and the spike is exceptionally good. Per doz., 40c; per 100, \$3.00.

MAID OF ORLEANS. Beautiful milky white with cream throat. Tall sturdy grower with eight or more well-placed flowers open at a time. Per doz., 40c; per 100, \$3.00.

ORANGE BUTTERFLY. Bright orange of fine substance. Ten to twelve well-arranged medium size flowers open at a time. A spike of bloom looks like a flock of butterflies in flight. Per doz., 40c; per 100, \$3.00.



Heritage

MAX REGER. Light lavender-blue with darker throat markings. A strong grower and good producer. We regard it as probably the best of the newer blues. A grand spike and flower. Per doz., 80c; per 100, \$6.00.

MARGARET FULTON. Clear rich soft dark salmon of a distinct shade which is different from the color of any other variety. Six to eight well-placed medium size blooms open. Fine cut flower variety. Per doz., 40c; per 100, \$3.00.

MINUET. Easily the most popular of all-purpose lavenders. The spike is a model of excellence, and placement is always good. Florets are large and well shaped. Per doz., 50c; per 100, \$3.50.

MRS. P. W. SISSON. One of the finest varieties for cutting or bedding; color a beautiful soft flesh-pink; orchid-like in its coloring and texture; growth and habit perfect. Per doz., 30c; per 100, \$2.00.

MOTHER MACHREE. Lavender overlaid toward the edges of the petals with salmon-pink. When bloomed outdoors it has a rather dull slaty color. Should be picked in the bud and opened inside where it opens into a really beautiful flower. Tall plant with eight to twelve blooms open. Per doz., 60c; per 100, \$4.50.

Ohio Valley Collection

12 PICARDY 12 GOLDEN DREAM
6 DEBONAIR 6 COMMANDER KOEHL
12 MINUET 6 LA PALOMA
54 large bulbs, \$1.75.

MOORISH KING. Finest mahogany-red that has fine substance and a color very seldom seen in a gladiolus. Vigorous grower and good placement of bloom. Quite an aristocrat. Per doz., 70c; per 100, \$5.00.

PARADISE. Apricot-buff shading to yellow in throat, touched with minute red hairlines. Vigorous grower, making fine, long spikes. Very artistic for home decorations. An improvement on Apricot Glow. Per doz., 40c; per 100, \$3.00.

PEACE. Very large, white, with pale violet feathering on lower petals; flowers correctly placed on a tall, graceful spike. Per doz., 30c; per 100, \$2.00.

PICARDY. Truly immense spikes carry as many as eight huge open flowers. The color is so rich a salmon-pink that an average vocabulary is unable to describe it. A sensational glad. Per doz., 40c; per 100, \$3.00.

PHYLLIS McQUISTON. Midseason. Large deep glowing shrimp-pink shading lighter in the throat. Tall vigorous plant with five or more large blooms on a long spike. An unusual and beautiful shade of pink. Per doz., 50c; per 100, \$3.50.

PIRATE. Beautiful dark rose-red. Somewhat lighter in upper throat. Several immense wide open blooms at a time. An unusual shade but one of the finest dark varieties. Per doz., 70c; per 100, \$5.00.

RED PHIPPS. Late midseason. Unusual shade of light red. Medium tall plant with long flower heads. Well liked as a florist's variety and always in demand. Per doz., 50c; per 100, \$3.50.

ROSE MARIE PFITZER. A giant ruffled flowered cream-pink that is unusual. The huge flowers are well placed with eight to ten opening at a time. A sure winner in the shows. Per doz., 80c; per 100, \$6.00.

SHIRLEY TEMPLE. Immense heavily ruffled cream with cream-yellow throat, 6 or more huge massive well placed blooms on a long spike. Sometimes a faint darker feather in the throat. This is one of the most beautiful varieties grown. Per doz., 80c; per 100, \$6.00.

STAR OF BETHLEHEM. The grandest white of all glads. This variety has proven itself a winner by the results at the shows. A well-placed spike of large flowers, fine substance, stems are strong and long. This variety in white has no superior. Per doz., 80c; per 100, \$6.00.

TIP TOP. Very vivid scarlet-red, producing fine straight spikes, early bloomer, immense flowers that stand the elements. Six to eight blooms open at a time. Quite showy. Per doz., 80c; per 100, \$6.00.

VAGABOND PRINCE. Iridescent garnet-brown shading lighter in the throat and with a small vivid flame-scarlet blotch on the lip. Eight to ten or more well-placed medium large blooms open at a time. An odd, very distinctive and showy color. Gorgeous. One that everyone should grow in his own garden. Beautiful and showy. Per doz., 80c; per 100, \$6.00.

WURTEMBERGIA. Fiery scarlet with cream-white throat. Immense blooms on a very tall, always straight spike. Most dazzling red you can imagine. Per doz., 50c; per 100, \$3.50.

MCCULLOUGH'S SUPER MIXTURE. Large size bulbs. Brilliant colors and shades. Per doz., 25c; per 100, \$1.50.
WHEN ORDERING, SEE PAGE 64 OF THIS CATALOG.

Cannas

Dormant Roots

Cannas do well in full sun and respond quickly to fertilizing with well-rotted manure. Blooming from early summer till frost, they give a gorgeous display without much expense or care.

Prices of named varieties listed below: per dozen, 75c; by mail, 90c per dozen.

Green Foliage

APRICOT. The color is a buff-yellow base overspread with salmon-pink, making a mass effect of rich apricot. 4 ft.

CANARY BIRD. Flower a pure canary-yellow, produced on strong erect stalks well above the large, rich green foliage. The color and habits of foliage identical with The President. 4 feet.

EUREKA. This is by far the very best white Canna ever introduced. Has showy large trusses. 4½ feet.

HUNGARIA. A great variety with beautiful clear rose flowers. Though old, still one of the most desirable. 3½ feet.

MRS. ALFRED CONARD. A very popular variety with glorious trusses of a bright salmon-pink color. 4 feet.

COLLECTION OF MIXED VARIETIES. Per doz. 60c; by mail, 75c.

THE PRESIDENT. The greatest of all red Cannas—a brilliant, fiery, and intense scarlet. Extremely free-flowering and wonderfully vigorous, growing to a height of 5 feet.

YELLOW KING HUMBERT. As vigorous as King Humbert with bright yellow blooms dotted with bright red. It has rich green foliage and grows 4½ feet high.

Bronze-Leaved

THE AMBASSADOR. A wonderfully free-flowering variety with brilliant red blooms set off by bronzy foliage. 5 feet.

KING HUMBERT. Great massive trusses of brilliant orange-scarlet flowers that form a striking contrast to the dark coppery bronze foliage. A vigorous grower, 5 feet high.

SHENANDOAH. 4 feet. Flowers salmon-pink borne in large clusters; foliage rich ruby-red.

Waterlilies and Aquatic Plants

A box one foot square and one foot deep is as small as you can have for the plants to do well. The soil for Waterlilies is preferably a mixture of two-thirds rich garden soil and one-third well-rotted cattle manure. Most Waterlilies thrive at any depth from 4 to 30 inches.

TUBEROSA ROSEA. A delightful shade of pink. Strong, vigorous grower. Each, 50c.

PINK OPAL. The flowers are very deep pink. One of the best pink varieties. Each, \$1.00.

MARLIACEA CHROMATELLA. Color of the bloom is bright yellow; leaves green mottled brown. Each, \$1.00.

MARLIACEA ALBIDA. This is one of the steadiest of bloomers. White with yellow stamens. Each, \$1.00.

CARMINE LAYDEKER. Pleasing rose-colored flowers. Rapid grower. Each, \$1.00.

Submerged Plants

These plants are to be rooted in soil in shallow water or in the lily boxes.

Collection of 10 plants\$1.00

Floating Plants

These plants float on the water and consist of a collection of Hyacinths, Shell Flower, Parrot Feather, Water Fern.

10 plants\$1.00

SUMMER FLOWERING BULBS

The Beautiful Amaryllis

GIANT AMERICAN HYBRIDS. A wonderful strain of new giant-flowered Amaryllis of free-blooming habit. The large flowers are composed of broad, overlapping petals ranging from crimson, orange, scarlet, and light rose to white. The bulbs should be planted in 6-inch pots in garden loam enriched with a handful of bone fertilizer. Cover bulb up as far as the neck; water sparingly until flower stalk appears; then water more freely as plant advances in growth. Large bulbs in mixture for delivery October to March. **MIXTURE.** Each 40c; 3 for \$1.10; per doz., \$4.00.

Separate Colors

Red. Red, with White Star. Variegated Pink and White. Pure White. Any of the above, 75c each; 3 for \$2.00; \$7.50 per doz.

Begonias

DOUBLE. Crimson, pink, scarlet, white and yellow in separate colors.

CARNATION FLOWERED or DOUBLE FRILLED. Red, yellow, pink, white, orange.

DOUBLE HANGING BASKET TYPE. Mixed shades of rose, pink, crimson and salmon.

SINGLE. Crimson, pink, scarlet, white and yellow, in separate colors.

PRICE: Any of the above Tuberous rooted Begonias 25c each; \$2.50 doz.

HYACINTHUS CANDICANS. A strong growing summer-flowering variety of Hyacinth quite distinct from those which bloom in the spring. Grows 3 to 5 feet high, bearing from 20 to 30 pure white bell-shaped flowers during the summer. 15c each; \$1.50 per doz.

GLOXINIA. Showy flowering bulb for the window garden or pot plant. Culture same as begonias, requiring good drainage. One bulb used for a 4-in. pot. Mixed colors, 25c each; \$2.50 per doz.

Caladiums - Elephant Ear

A vigorous growing plant which has tremendously large pendulous leaves, borne on long, stiff stems. In rich soil, and with an abundance of moisture, assumes very large growth.

	Each	Doz.
9 to 11 in. circumference...	\$0.15	\$1.50
11 to 13 in. circumference...	.20	2.00



Tuberous rooted Begonia

Madeira Vines - (MEXICAN POTATO)

A rapid-growing vine with bright, smooth leaves which produce intense shade and valuable for covering fences, outbuildings, or screening porches. Plant the roots 2 inches deep. Each, 5c; per doz., 40c; per 100, \$3.00.

Tuberoses

Well-known summer flower, having a very sweet scent. Bulbs may be planted outside from April to June.

EXCELSIOR DWARF PEARL. The best of all double Tuberoses, producing very large finely formed flowers. First size bulbs, each, 7c; per doz., 50c; per 100, \$3.50.

New Giant Montbretias

These new hybrid Montbretias have flowers of largest size and beautiful rich colors. The individual blooms are nearly 3 inches in diameter. They are borne on slender, wiry, branching stems frequently over 3 feet high. They are gay and attractive in the garden during late summer and fall, also giving wonderful material for cutting. Plant in April or May. **Special Mixture**, each, 10c; per doz., \$1.00; per 100, \$7.00.

ISMENE CALATHINA (Peruvian Daffodil). A grand summer-flowering bulb with large, fragrant Amaryllis-like blooms with apple-green markings in

the throat. Very easy to grow. Keep bulbs in a warm dry room and plant out in June. Take up in October and store warm and dry during the winter. They do best in a well-drained fertile soil where they will multiply rapidly. 15c each; \$1.50 per doz.

Hardy Lilies

AURATUM (Gold-Banded Japan Lily). A large, graceful, fragrant flower composed of 6 petals of a delicate ivory-white color, thickly studded with maroon spots and striped through the center with golden yellow. Height, 3 to 5 feet. July to September. **Large bulbs**, 25c each; \$2.50 per doz.

REGALE. The fragrant flowers are white, shading to pale yellow in the center, with a pink tinge on the outer edges. It grows 3 to 4 feet high, and is extremely hardy. Blooms in July. **Large bulbs**, 25c each; \$2.50 per doz. **Extra-large bulbs**, 35c each; \$3.50 per doz.

SPECIOSUM MAGNIFICUM (Rubrum). Rich ruby-carmine, margined white; stout of substance and broad of petal. A very prominent variety due to its vigorous growth as well as the size and depth of coloring. Blooms in August. 35c each; \$3.50 per doz.

HENRYI. One of the best border Lilies, being 6 to 8 feet high when established, and bearing 18 to 20 flowers of a deep orange-yellow. Does well in light and heavy soils; prefers soil with a mixture of peat. Plant 8 to 10 in. deep. Blooms in August. 25c each; \$2.50 per doz.

TENUIPOLIUM. A small Lily of brilliant coloring, deep waxy scarlet. A gem in the rock garden as well as in the border. Prefers a cool, damp, loamy soil and partial shade, but does well anywhere in well-drained soil. June flowering. 15c each; \$1.50 per doz.

TIGRINUM SPLENDENS. The finest form of Tiger Lily with the richest color. Large flowers are dark salmon-orange, spotted with glossy black. Easy to grow. August and September blooming. 20c each; \$2.00 per doz.

TIGRIDIA—Shell Flower (Pavonia grandiflora). Mexican bulbs producing showy, large, oddly shaped blooms of exotic beauty. Handle same as Gladiolus, planting bulbs when nights have become balmy, and take up again before frost in the fall; 18 inches high; flowering during the summer and fall months. Mixed colors, 15c each; \$1.50 per doz.

Hardy Shrubs

We do not guarantee or replace plants, shrubs or trees, at prices quoted.

These shrubs, all shedding their foliage in the winter, are quite hardy, and will thrive in practically all sections. They make a rapid and luxuriant growth. Many varieties are used in foundation plantings, and others are desirable for flowers and berries.

Althea (Rose of Sharon)

Has a characteristic upright habit useful in formal work. Plant in spring as it grows until late autumn. Flowers in August. 2-3 ft. Colors red, pink and white. Each, 45c; 3 for \$1.25.

Butterfly Bush (Buddleia)

SUMMER LILAC. Semi-herbaceous plant, dying down to the ground each year. Rich lavender spikes of flowers. Will bloom from June to September. Each, 45c; 3 for \$1.25.

Cydonia

(Flowering Quince or Firebush)

JAPAN (C. japonica.) Common garden form, growing from 3 to 6 feet with spreading, spicy branches. The scarlet-red flowers appear before the leaves and are followed by globular fruits from 1½ to 2 inches. Height 18 to 24 in. Each, 45c; 3 for \$1.25.

Deutzia

PRIDE OF ROCHESTER. Showy, early, large flowering sort; blossoms in May before others. Grows 6 to 8 feet high. White flowers, large and double. 18 to 24 inches. Each, 45c; 3 for \$1.25.

Golden Bell - Forsythia

FORTUNE'S. Grows with upright or arching branches. 2 to 3 ft. Each, 45c; 3 for \$1.25.
SPECTABILIS. Strong grower. Showiest of all Forsythias. Of extremely dense flowering habit. Every branch covered with striking yellow flowers before foliage appears. 2 to 3 feet. Each, 45c; 3 for \$1.25.

Hydrangea

ARBORESCENS GRANDIFLORA (Hills of Snow.) During July and August large white flowers are borne in large bunches. Prune severely for best results. Useful in shade. 18-24 in. Each, 45c; 3 for \$1.25.

PANICULATA GRANDIFLORA. Almost everyone knows the great heads of white flowers that gradually turn pink when cut and dried for decoration. 18-24 in. Each, 45c; 3 for \$1.25.

Kolkwitzia - Beauty Bush

Shrub growing from 6 to 8 feet tall, the whole plant forming a dome-shaped mass. The flowers are produced along the whole length of the branches in clusters at the ends of short, leafy shoots. Flowers pink. 15 to 18 in. Each, 60c; 3 for \$1.65.

Lilac - Syringa

Old-Fashioned Fragrant Flower
PERSICA. Wiry bush 8-10 ft. Fragrant, light purple flowers, large loose clusters. Each, 45c; 3 for \$1.25.

FRENCH HYBRID LILACS. Very hardy, easily grown. Graceful plants and very fragrant. Mixed varieties. Splendid varieties on their own roots. 18-24 inches. Each, 60c; 3 for \$1.65.

VULGARIS. The common purple lilac which everybody knows. Each, 45c; 3 for \$1.25.
VULGARIS ALBA. This is the old-fashioned white Lilac. Each, 45c; 3 for \$1.25.

Honeysuckle - Lonicera

TARTARIAN (L. tatarica alba). This is one of the old-time favorite shrubs. Ten feet in height and extremely easy to grow. 18 to 24 inches. Each, 45c; 3 for \$1.25.

Philadelphus

PHILADELPHUS VIRGINAL. Blooms throughout the season. This is a new and wonderful addition to the Mock Orange family but is far beyond anything in this line that has been brought out. Without question one of the most beautiful shrubs grown. 2 to 3 ft. Each, 45c; 3 for \$1.25.

Pussy Willow

PUSSY WILLOW (Not the Wild Pussy Willow). Dainty silvery flowers every winter. A beautiful round shrub in summer. Wherever you have room for a Lilac or Snowball, you have room for a Pussy Willow. Use them for tall screens or backgrounds. Cut the ends of the branches in January or February. Place them indoors in a vase of water. Watch them unfold their large catkins of silvery pink, from 1 to 2 inches long. Price, 2 to 3 ft., each, 45c; 3 for \$1.25.

Snowberry

SYMPHORICARPOS (White Snowberry). Hardy shrub from two to three feet high, excellent for massing in the lower parts of a bed or border. Rose-colored flowers appear in July and August. The white wax-like berries remain on until late in the autumn. 2 to 3 ft. Each, 45c; 3 for \$1.25.

SNOWBERRY, RED. Slender arching shrub, very showy in autumn when covered with bunches of bright, coral-pink, small fruits which hang on nearly all winter. 2 to 3 ft. Each, 45c; 3 for \$1.25.

Spiraea - The Most Popular Shrub

ANTHONY WATERER. Bright pink. June and July. A compact low-growing shrub with dense foliage. Flowers are borne in full flat clusters on erect stems. Very valuable for edging in front of shrubbery or as a dwarf hedge. 12 to 18 in. Each, 45c; 3 for \$1.25.

SPIREA VAN HOUTTEI. White. May. This is the most useful of the hardy shrubs. The flowers are in flat clusters usually an inch or more across, produced by spreading, pendulous branches often drooping to the ground. 2 to 3 ft. Each, 35c; 3 for \$1.00.

Weigelas

ROSEA. A choice, vigorous sort, which yields an immense crop of deep pink trumpet-like flowers in June, and bears a scattering of blossoms through the rest of the season. 2 to 3 ft. Each, 45c; 3 for \$1.25.

EVA RATHKE. The flowers are a deep carmine-red, erect growing. A most profuse bloomer in spring and again in autumn. 18 to 24 in. Each, 45c; 3 for \$1.25.

Hardy Vines

Clematis

PANICULATA. Extremely showy when covered with small, white, fragrant flowers which appear late in the season. Beautiful, shiny green foliage. Each, 50c.

JACKMANI. One of the best known of all the Clematis. The velvety purple flowers, when expanded, are 4 to 6 inches across, very velvety and distinctly veined. We send out strong, healthy roots of Clematis and cannot entertain any claims for non-success with these plants. Each, 75c.

Honeysuckle - Lonicera

HALL'S JAPAN EVERGREEN HONEYSUCKLE. Honeysuckles are well adapted for the covering of walls, arbors, etc. Leaves remain on during the winter. The flowers are white, turning to yellow; very fragrant. Each, 25c.

Wisteria

CHINESE WISTERIA (W. sinensis). Will bloom the first year. Has pale green leaves and bears profusely in dense, drooping clusters; purplish, pea-shaped flowers. Blooms in May. Each, 50c.

Hedge Plants

CALIFORNIA PRIVET. Free growth and succeeds under adverse conditions; good in south. Foliage is nearly evergreen, remaining on the plant until mid-winter. Nice plants, 12-18 inch, 25 for \$1.50; 100 for \$4.00. 18-24 inch, 25 for \$1.75; 100 for \$6.25.

JAPANESE BARBERRY (Berberis Thunbergii). One of the best hedge plants in existence. Beautiful throughout the year; abundant crop of bright red berries in winter. Compact growth and thorny branches make a defensive hedge that will turn cattle after five years growth. Poor soil is no barrier. 15-18 inch, 12 for \$2.00; 100 for \$12.00.

Can also furnish seedlings. 12-15 inch, 25 for \$2.50; 100 for \$8.00.

RED-LEAVED BARBERRY. Finest shrub in recent years. Bright red in the spring, stays red through the summer and deepens to a deep crimson in the fall. Red berries stay on all winter. Unequaled for bright coloring. All that is required to develop its brilliant coloring at all seasons is that it be planted in full exposure to the sun. 15 to 18 inch, each, 50c; 5 for \$2.25.

Ornamental and Shade Trees

Ash

EUROPEAN MOUNTAIN (Sorbus aucuparia). An ornamental deciduous tree with beautiful foliage which turns orange-red in fall; fruits showy, often remaining all winter. 6 to 8 feet. Each, \$1.75.

Catalpa Bungei

UMBRELLA TREE. A broad, dome-shaped head at the top of a long straight stem. When the tree attains its full growth the top is often 15 feet in diameter and not over 3 to 4 feet tall on top of a strong stem from 5 to 7 feet in height. An exceptionally hardy variety. 5 to 7 feet. 1-year heads. Each, \$1.00.

Cercis

AMERICAN REDDB. Exceedingly showy small tree in early spring when covered with small bright cerise flowers. Makes brilliant effect. 4 to 5 ft. Each, \$1.50.

Red Dogwood

RED DOGWOOD (Cornus Florida rubra). A magnificent sight in full bloom. Thousands of large rose-red blooms appear before the foliage in early spring, creating a most warm and cheerful array of brilliance. The compact well-formed trees never grow very large. Very beautiful when planted as a specimen or in groups. 2-3 ft. size, \$1.50 each; 3 for \$3.95.

White Dogwood

WHITE DOGWOOD (Cornus Florida). A lovely dwarf tree, glorious with its abundance of white flowers in May. In autumn, the clean attractive foliage is changed into bright reds and scarlets. Also each autumn, the tree is filled with clusters of brilliant red fruits. 2 ft., 35c each; 3 for \$1.00. 4 ft. blooming size, \$1.25 each; 3 for \$3.25.

Hawthorn

CRATAEGUS CORDATA (Washington Hawthorn). The best of the white flowering Hawthorns. A dwarf perfectly formed narrow columnar tree of great beauty. The best foliage of all Hawthorns and an abundance of pure snow-white flowers followed by clusters of fiery orange scarlet berries that are excellent for Christmas holiday decorations. Forms a beautiful sight in your garden from early fall until mid-winter. 12-18 inch, 40c each; 3 for \$1.00. 3-4 ft., 75c each; 3 for \$1.95.

Elms - Ulmus

PUMILA. A new variety of Elm. A native of China. Rapid growing tree, forming a very dense head, with smaller darker leaves than the American Elm. 6 to 8 ft. Each, \$1.50.

Japanese Cherry

JAPANESE CHERRY YOSHINO (Prunus yodensis). Yoshino is the most free flowering of all. Lovely bright pink flowers entirely fill the plant. Yoshino is the famous variety planted around the tidal basin in Washington, D. C. Immensely popular, easy to grow. Large 5 ft. size, \$1.75 each.

Oak - Quercus

RED OAK. 80 to 100 feet tall, unusually large in leaf and quick in growth. The young shoots and leaf-stems are red, the foliage purplish crimson in autumn. Price: 6 to 8 ft., \$1.75.

Poplar

LOMBARDY (Populus nigra var. italica). The Lombardy Poplar becomes one of the most striking and picturesque trees, particularly when some of the sprouts are allowed to grow about the old stock. 6 to 8 ft. Each, 60c.

Rose Tree of China

THE ROSE TREE OF CHINA (Prunus triloba.) Is the most beautiful and showy of all small trees. Blooms before the leaves appear in the spring, with double rose-like pink flowers. As an ornament from early spring until late fall it has few equals. 2 to 3 ft. Each, \$1.00.

Weeping Willow

GOLDEN WEEPING (Salix elegantissima). A strong and the most vigorous grower of all the weeping willows. For planting in low places or on the banks of streams, springs, lakes or ponds, making a very beautiful effect. 6 to 8 ft. Each, \$1.75.

Maple

SILVER (A. saccharinum). Best known of all Maples. Wide, slender spreading branches. Thrives almost anywhere. 6 to 8 ft. Each, \$1.25.

NORWAY (A. platanoides). Large, handsome tree with a compact rounded head. One of the best and most beautiful trees for the street, the park, cemetery, or lawn planting. 6 to 8 ft. Each, \$1.75.

Fruit Trees, Grape Vines, and Small Fruits

Peach

Height	Each	3 Trees	10 Trees
3-4 feet	\$0.50	\$1.40	\$4.35
4-6 feet	.65	1.80	5.50

CHAMPION. The finest flavored peach. Superb creamy white blushed peach of excellent quality.

VEDETTE. Extra hardy and productive highly blushed golden freestone.

HALE-HAVEN. Large heavy yielding yellow. Freestone.

ELBERTA. High colored yellow freestone. One of the best. most planted.

J. H. HALE. Larger and earlier than Elberta. Splendid commercial peach.

Apples

Height	Each	3 Trees	10 Trees
3-4 feet	\$0.75	\$2.10	\$6.50
4-6 feet	.90	2.50	7.75

YELLOW TRANSPARENT. Summer. Clear white, turning pale yellow.

JONATHAN. Early winter. Red, smooth, fine quality. Good keeper.

GRIMES GOLDEN. Early winter. Bright yellow, pink cheek, highest quality.

TURLEY WINESAP. A young bearing red winter variety, choice eating, table and cooking apple.

RED ROME BEAUTY. A late keeping and cooking apple. Beautiful red fruit.

DOUBLE RED DELICIOUS. It's properly named for color, wholesomeness, mellowness, flavor and aroma whether for cooking or eating. Our trees are an improved bright red strain descended from the original tree stock.

YELLOW DELICIOUS. A heavy bearing golden apple. Very tasty.

Cherry

Height	Each	3 Trees	10 Trees
3-4 feet	\$0.90	\$2.50	\$7.75
4-6 feet	1.15	3.25	11.00

EARLY RICHMOND. Old favorite, very hardy, sour, good for cooking.

MONTMORENCY. Larger than Early Richmond, later, best for shipping.

BLACK TARTARIAN. Very large black, juicy fruit. June.

GOV. WOOD. Sweet, pinkish yellow, flesh soft, early, regular crops.

YELLOW SPANISH. Sweet, yellow, flesh firm; best and most popular sweet.

Plum

Height	Each	3 Trees	10 Trees
3-4 feet	\$0.75	\$2.15	\$6.75
4-6 feet	.90	2.50	7.75

ABUNDANCE. One of the best Japanese plums, bears young; rich, bright red with light yellow flesh, excellent quality.

BURBANK. Tree round, sprawling, productive; bears young. Fruit round, cherry-red with lilac bloom.

GIANT PRUNE. Best and most popular. Large, dark blue, firm, sweet and delicious; commanding highest prices. One of the best for canning.

Hardy Apricot

A real hardy Apricot. Imported from Hungary a few years ago. Comes into bearing very young and seldom misses a crop. Quality of fruit is excellent, and it is good sized. Beautiful in bloom and when tree is in fruit. Now offered for the first time. 5-6 feet. Each, 90c.

Pear

Height	Each	3 Trees	10 Trees
3-4 feet	\$0.75	\$2.15	\$6.75
4-6 feet	.90	2.50	7.75

BARTLETT. Large, early, yellow, with blush next to sun, juicy, very popular.

CLAPP'S FAVORITE. Large, fine, pale yellow with brown dots, fine texture.

SECKEL. Small, skin yellowish brown, popular for dessert and pickling. Very sweet.

Quince

3-4 feet. Each, 80c; 2 for \$1.50.

ORANGE. Large, round, bright golden yellow. Excellent flavor. Abundant bearer, good for market. Best late variety.

Asparagus Roots

(See page 3).

DISTANCES FOR PLANTING. Apples, 30 to 40 ft. Pears, 18 to 20 feet. Quinces, 10 to 12 ft. Peaches, 16 to 18 ft. Cherries, sweet, 18 to 20 ft. Cherries, sour, 15 to 18 ft. Plums, 16 to 20 ft.

ALL PRICES IN THIS CATALOG SUBJECT TO CHANGE WITHOUT NOTICE. WE DO NOT GUARANTEE OR REPLACE PLANTS, SHRUBS OR TREES, AT PRICES QUOTED.

Grape Vines

ALL TWO-YEAR-OLD SELECTED STOCK

2-year-old varieties: Each, 20c; 5, 90c; 10, \$1.75; 25, \$4.00; 100, \$14.50, except where noted.

Write for Special Prices on 1,000 lots.

CONCORD. Large, black grape, hardy and productive; juicy and sweet.

WORDEN. A black grape that resembles Concord, but of higher quality and ripens a week to ten days earlier.

CATAWBA. Berries large, round, when ripe a dark copper color; sweet, rich, musky flavor.

DELAWARE. Small, light red, thin skin, very juicy, sweet, fine flavor.

NIAGARA. Vine remarkably hardy and strong grower; bunches very large and compact; berries large, greenish white, slightly ambered in the sun; skin thin but tough.

NEW GRAPE CACO. The vines are strong and vigorous. The fruit is very large; in color a rich wine-red over amber. Early bearing, usually showing several good sized bunches the second year. Its flavor is luscious, sweet, delightful, distinctive. Price, 40c each; 5 for \$1.00.

Raspberries 25 for \$1.35; 100 for \$4.00

CUMBERLAND RASPBERRY. The largest of all blackcaps; firm and a good shipper, and one of the most profitable in market.

LATHAM. Splendid strong growing kind, produces immense quantities of bright red extra large berries.

CHIEF. New variety. Ripens earlier than Latham, greater hardiness, more disease-resistant, bears more abundantly. Fruit bright red, somewhat smaller than Latham. One of the most profitable.

NEW INDIAN SUMMER. A large red everbearing raspberry superior to all others. Certain to be profitable commercially because of the demand and high prices of berries in the fall. Think of picking fresh raspberries from your garden to eat from September until killing frosts. They bear in the spring like other raspberries and again in the fall. The fruits are large and of high quality.

Blackberries 25 for \$1.35; 100 for \$4.00.

ELDORADO. Comparatively new variety, and has proven to be the best of all blackberries under cultivation. Very hardy. Fruit very large, jet black, good shipper, good quality, great producer.

Dewberry 25 for \$1.35; 100 for \$4.00.

LUCRETIA DEWBERRY. Hardy, productive, best variety, sweet. Highly recommended.

Strawberries 25 plants, 50 cents; 100 plants, \$1.25. 1000 plants of any one variety, \$7.50.

SENATOR DUNLAP. The demand for this variety has been increasing steadily, as it has an unusually long fruiting season. It bears immense quantities of large, handsome, rich fine flavored, dark red berries.

PREMIER. Also called Howard, is a little lighter than Dunlap, of large size and good quality. Plants healthy, vigorous, productive, and have a long bearing season. It is frost-resistant in both bud and blossom.

DORSETT. A new berry originated by the U. S. Dept. of Agriculture. Superior to Premier. A decided "money-maker" with large, scarlet-red berries of the finest quality, size and flavor.

AMBROSIA. Ripens a month later than Premier. The newest and latest ripening high quality healthy strawberry. Ambrosia is self-pollinating, extremely hardy, and tall, maturing its fruits off the ground. It commands premium prices because of the extra large sparkling bright red sweet fruits that mature when June varieties are gone.

FALL OR EVERBEARING STRAWBERRIES

MASTODON. The Mastodon, which is a recent introduction, is a fall-bearing variety of great promise. Should give excellent results where water can be applied during dry weather and where special attention can be given to the plants. Per doz., 45c; per 100, \$2.00.

Distances for Planting. Grapes, rows 10 to 16 feet apart, 7 to 10 feet in rows. Blackberries, 5 to 7 feet apart, 3 to 5 feet in rows. Currants, 4 feet apart each way. Gooseberries, 4 feet apart each way. Raspberries, rows 5 feet apart, 3 feet in rows. Strawberries, for garden culture, plant in beds 4 feet wide, 3 rows in each bed, plant 1 foot apart in rows.

ALL 10c PACKETS ARE 3 FOR 25c; ALL 15c PACKETS ARE 2 FOR 25c — When ordering, see page 64 of this catalog.

DOG, BIRD and PET FOODS and SUPPLIES

Miller's Dog Foods

These excellent foods for dogs are made from meat, cereals, Fleischmann's Irradiated Dry Yeast, Cod Liver Oil, Bone Meal, and other top quality ingredients. They contain abundant vitamins and all necessary food elements. Miller's Dry Foods are concentrated and will go much farther than canned meat food; they contain no moisture or filler.

KIBBLES. 5 lbs., 60c; 10 lbs., \$1.10; 25 lbs., \$2.50; 100 lbs., \$8.50.

BISCUIT. 5 lbs., 60c; 10 lbs., \$1.10; 25 lbs., \$2.50; 100 lbs., \$8.50.

RATION. 5 lbs., 40c; 10 lbs., 75c; 25 lbs., \$1.75; 100 lbs., \$5.75.

MEATIES (Cubes). 5 lbs., 45c; 10 lbs., 75c; 25 lbs., \$1.75; 100 lbs., \$6.25.

PUPPY MEAL. 5 lbs., 60c; 10 lbs., \$1.10; 25 lbs., \$2.50; 100 lbs., \$8.50.

CANNED MEAT FOOD. 1-lb. can, 10c; 1 for 25c. Case (48 1-lb. cans), \$3.50.

Gaines Dog Food

MEAT AND MILK MEAL. Contains meat, milk, eggs, processed beets, soy beans, whole wheat, yellow corn, white rice, malt syrup, minerals, cod liver oil, enzymatic material, lactoflavin concentrate. Gives dogs vigorous health, glossy coat, better digestion, and clean intestinal tracts. 5 lbs., 45c; 10 lbs., 85c; 25 lbs., \$2.00; 100 lbs., \$6.50.

GAINES KRUNCHON. Made of exactly the same ingredients as Gaines Meat and Milk Meal but hardened into convenient size cubes that all dogs eagerly crunch on; massaging their gums and increasing the flow of saliva. 5 lbs., 55c; 10 lbs., \$1.00; 25 lbs., \$2.10; 100 lbs., \$7.00.

"GAINES 90". Canned meat. 1-lb. can, 10c; case (48 1-lb. cans), \$4.50.

Fleischmann's Irradiated Dry Yeast

Increases pep and general vitality. Stimulates the appetite and aids digestion. Not a medicine but a natural food supplement which should be given to all dogs regularly. Produces a finer and heavier coat—builds stronger bones and muscles—prevents and cures rickets—develops sturdier puppies. Rich in vitamins B, D, and G.

Just mix right in with their other food. 3½-oz. can, 25c; 8-oz. can, 50c; 1-lb. can, 85c; 5-lb. can, \$3.50.

Dog Remedies

ITCH-A-WAY. An ointment used for simple mange, continuous scratching, eczema, skin irritation and falling hair. If the dogs lick it, it is good for them. ¾-oz. tin, 15c; 3-oz. tin, 50c.

MILLER'S DOG SOAP. Cake, 25c.

MILLER'S F. K. FLEA KILLER (Powder). Shaker top. 3-oz. pkg., 35c.

BEE BRAND SHAMPOO. Lathers, cleans, kills fleas. 4-oz. bottle, 35c.

PULVEX. Kills lice, fleas, ticks or mites on dogs and birds. 2-oz. pkg., 50c; 12-ozs., \$1.25.

PULVEX COMBINATION TREATMENT WORM CAPSULES. Complete treatment for round, hook and tape worms, for puppies and dogs weighing less than 10 lbs. Pkt. (18 capsules), 50c; for dogs weighing 10 lbs. or over, pkg. (12 capsules), 50c.

CEDAR KENNEL BEDDING. 5-lb. bag, 35c. Large bag, about 50 lbs., \$2.00.

Bird Foods and Remedies

CANARY SEED. Recleaned. Per lb., 15c; 2 lbs., 25c.

RAPE SEED. Per lb., 15c.

CANARY SEED MIXED. Per lb., 15c; 2 lbs., 25c.

SUNFLOWER. Large selected seed. Per lb., 15c; 2 lbs., 25c.

MILLET SEED. Per lb., 15c; 2 lbs., 25c.

HEMP SEED. Per lb., 15c; 2 lbs., 25c.

ANISE SEED. Per lb., 40c.

McCULLOUGH'S WILD BIRD SEED



A mixture of re-cleaned seeds, especially blended for the feeding of wild birds. Contains sunflower, millet, wheat, peanut hearts, etc. All whole seeds, no cracked grains. 5 lbs., 45c; 10 lbs., 75c; 25 lbs., \$1.75; 100 lbs., \$6.50.

CARAWAY. Per lb., 60c.

GOLDEN PLEASURE. Per lb., 35c.

LETTUCE SEED. Per lb., 35c.

POPPY or MAW. Per lb., 50c.

SESAME. Per lb., 25c.

THISTLE. Per lb., 25c.

OAT GROATS. Per lb., 10c.

LOVE BIRD SEED. Per lb., 15c; 2 lbs., 25c.

McCULLOUGH'S BIRD TONIC. (Bulk.) Per lb., 45c.

McCULLOUGH'S BIRD GRAVEL. Pkg. (28 ozs.), 10c; 2 for 25c.

Ask For Prices On Larger Quantities.

BURNETT'S UNEXCELLED BIRD FOOD. 3½-oz. pkg., 20c.

BURNETT'S COD LIVER OIL AND NESTLING FOOD. 3½ ozs., 25c; 1 lb., 40c; 5 lbs., \$1.50.

BURNETT'S LIGHTNING SONG RESTORER. 3½-oz. pkg., 20c.

BURNETT'S PEP. A seed biscuit. Each, 10c.

BURNETT'S CANARY LOUSE POWDER. (In guns.) 1 oz., 25c.

BURNETT'S KID NESTING. 10c.

CUTTLE BONE. ¼ lb., 35c; 1 lb., \$1.00.

BIRD NESTS. 10c.

Fish Food and Supplies

BURNETT'S NATURAL FISH FOOD. 10c.

Cat Foods

BURNETT'S CATNIP LEAVES. ¾-oz. pkg., 10c.

BURNETT'S CATNIP MICE. Each, 10c.

Insecticides, Fungicides, Sprays and Dusts

Customers using large quantities of insecticides are requested to ask for special prices and specify the quantities wanted. Prices quoted are subject to change.

ACME ANT-KILL. Kills ants in the nest, destroying the entire colony. Junior set contains ½-oz. bottle syrup and 2 safety service cups for 35c.

ACME BAIT-M. Will rid the premises of cutworms, snails, sow bugs, grasshoppers. 1½-lb. pkg., 35c; 4-lb. pkg., 85c.

ACME COPPER SHIELD PRUNING FAINT. A prepared liquid paint containing copper for treating wounds left by pruning, storms, or accidents. Prevents canker fungus, hard rot, and certain other fungi. Forms a protective shield. ½ pt., 25c; pt., 40c; qt., 65c; gal., \$2.00.

ACME DAWG-GONE. Keeps dogs away from evergreens, etc. To use, hang tube with cap and cork removed at the point of approach. Tubes, 25c each, or 5 for \$1.00.

ACME KOPPER QUEEN. A liquid copper spray for the control of mildew. 8-oz. can, 35c; pt., 60c; qt., 90c.

ACME RED RIVER POTATO MIX. Kills potato bugs, drives off flea beetle and leaf hopper, prevents blight, stimulates foliage, complete control in one operation. Use as a dust or spray. 1 lb., 30c; 4 lbs., 80c.

ACME ROTENONE GARDEN GUARD. A strong safe rotenone dust. 1-lb. shaker top cartons, 35c each.

ANTROL. Ready-filled set containing 4 filled feeders, 40c; Antrol Syrup, 4 ounces, 35c; pt., 85c.

ANTROL ANT POWDER. Kills ants, roaches, silverfish. 1¾ ozs., 10c; 4¾ ozs., 25c.

ANTROL ANT TRAP. Kills both sweet and grease-eating ants. Ready to use. Each, 10c.

ARSENATE OF LEAD. The standard insecticide for the control of chewing insects. ½ lb., 20c; 1-lb. carton, 30c; 1-lb. bag, 25c; 4 lbs., 60c.



ROSE SPRAY

Good-by guesswork! Grow beautiful roses and other flowers with the Acme System of Spray Treatment combining 3 necessary elements (packed separately) to solve the entire spraying problem—NO other sprays needed. Ask for ACME SCIENTIFIC ROSE SPRAY

The number indicates number of gallons of spray each set will make.

No. 3.....	\$0.95
No. 6.....	1.50
No. 24.....	4.00
No. 48.....	6.00
No. 96.....	9.75



ARSENATE OF LEAD (Colored Green). Invisible on the foliage. 4-lb. bag, 75c.

BLACK LEAF 40. A concentrated nicotine solution for aphids, thrips, and red spider. Oz., 35c; 5 ozs., \$1.00; lb., \$2.25; 2 lbs., \$3.25; 5 lbs., \$5.85; 10 lbs., \$10.60.

BORDEAUX MIXTURE. The recognized preventive for most fungous diseases. 1-lb. carton, 30c; 1-lb. bag, 25c; 4 lbs., 65c.

CALCIUM ARSENATE. A strong inexpensive insecticide for use on hardy foliage, such as potato vines, etc. 1-lb. carton, 25c; 1-lb. bag, 20c; 4-lb. bag, 45c.

CARTRIDGES FOR ROSE SPRAY GUN. Arsenate of Lead, Bordeaux, Sulphur, Dormant Oil Spray, Plant Food Spray, 25c each. Pyrethrum, Nicotine, Rotenone, 35c each; 2 for \$1.00.

CHAPERONE (Liquid). For outdoor use to keep dogs away. 4 ozs., 50c; 12 ozs., \$1.00.

CHAPERONE (Powder). Makes your dog behave in the house; harmless to furniture. Keeps dogs off rugs and furniture. Almost odorless to humans. \$1.00 per pkg.

CROW REPELLENT. Seed-preserver for corn. ½-pt. can, enough for one bushel seed, 60c; 1-pt. can, enough for 2 bus. \$1.00; 1-qt. can, enough for 4 bus., \$1.75.

INSECTICIDES, FUNGICIDES, SPRAYS AND DUSTS—Continued

CUPROCID 54Y. A fungicide plant spray containing yellow cuprous oxide. Recommended for control of certain diseases of the following crops: Potatoes, tomatoes, celery, other vegetables and flowers. 3-lb. bag, \$1.10.

CUPROCID (Red Copper Oxide). Seed protectant. Controls damping off. 4-oz. tin, 35c; 1-lb. tin, 90c.

CYANOGAS. "Calcium Cyanide". Grade A, for the destruction of ground moles, woodchucks, rats, and other rodents. ½ lb., 45c; 1 lb., 75c; 5 lbs., \$3.00.

CYANOGAS "Grade G". For greenhouse fumigation. 5 lbs., \$3.00; 25 lbs., \$10.00; 100-lb. drum, \$25.00.

CYANOGAS KILLS ANTS. 4 ozs., 30c.

DOG SKAT. The repellent odor, unnoticeable to humans, makes dogs change their habits. 3-oz. bottle, 35c.

DOGZOFF. Efficient animal repellent. Garden size bottle, 50c.

DUTOX. Fluorine insecticide controlling many beetles and chewing insects. 1-lb. bag, 35c; 6-lb. bag, \$1.50.

D-X. A penetrating pyrethrum spray with rotenone added. Controls both sucking and chewing insects. ½-oz. bottle, 35c; ½ pt., \$1.15; 1 pt., \$2.00; 1 qt., \$3.25; 1 gal., \$8.75.

EVER GREEN. A non-poisonous pyrethrum insecticide that destroys a great number of both chewing and sucking insects. Does not require a spreader. Oz. bottle, 35c; 6-oz. tin, \$1.00; 16-oz. tin, \$2.15.

FISH OIL SOAP. 1 lb., 30c; 5 lbs., \$1.25.

FORMACIDE. A formaldehyde dust used to control damping off. ½ lb., 45c; 1 lb., 75c; 5 lbs., \$2.00.

FUME-GEN. A scientific dog and ant repellent and insecticide. Pkg. 50c.

FUMETOBAC. Tobacco powder for burning in greenhouses. Economical where heavy fumigating not required. 25-lb. drum, \$4.75; 100-lb. drum, \$14.00.

FUNGTOGEN. A most effective control for mildew, black spot, and other fungous diseases of Roses. Will not discolor the foliage. Half pint, 75c; 1 pt., \$1.25; qt., \$2.00; gal., \$6.00.

GRAFTING WAX. ½ lb., 40c; 1 lb., 60c. By mail, add 7c.

GRAPE AND ROSE DUST. Powder. An effective preventive for mildew and other fungous diseases in the garden or greenhouse. 5 lbs., \$1.25.

GRASSELLI SPREADER. A combined spreading, sticking and wetting agent. Pint, 75c; gallon, \$4.75.

IRON SULPHATE. 5 lbs., 45c; 10 lbs., 80c; 25 lbs., \$1.45; 50 lbs., \$2.25; 100 lbs., \$3.75.

KILLOGEN. Plant spray and ant killer. Per bottle, 50c.

KIK. For roses. A combination of the most effective fungicides and contact insecticides. Its threefold action controls all types of insects and fungus in one spray—one mix. 4-oz. bottle, 65c.

LETHANE 440. For mealy bug and other sucking insects. Qt., \$2.00; gal., \$5.50.

LETHANE SPREADER. Quart, 75c; gal., \$1.80.

LIME AND SULPHUR (Dry). For use in dormant spraying against scale, peach blight, leaf curl and twig borer. Summer spraying against scab, blotch, red spider and mite. 1 lb., 35c; 5-lb. tin, \$1.45; 12½-lb. bag, \$1.75.

LORO. A contact insecticide for Gladioli thrip. Carnations, Chrysanthemums, etc. Pint, \$2.00; gallon, \$10.50.

MAGNESIUM ARSENATE DUST MIXTURE. For control of Mexican bean beetle. Per lb., 35c; 4 lbs., 75c; 12 lbs., \$2.25.

MOLOGEN. Eliminates moles from your lawn. Non-poisonous. ½ lb., 50c; 1½ lbs., \$1.25.

MULTICIDE. Kills many plant insects. Safe to use. No spreader required. 1 gal., \$9.90.

NAPHTHALENE FLAKES. Useful in controlling Gladioli thrips, Cyclamen thrips, together with certain soil insects, moles, etc. Lb., 20c; 5 lbs., 75c; 25 lbs., \$3.50.

NICO-FUME PRESSURE FUMIGATOR. 1-lb. can will fumigate between 25,000 and 30,000 cubic feet of greenhouse space. ½-lb. can, 45c; 1-lb. can, 75c.

NICO FUME. Liquid. An effective vaporizing liquid. Lb., \$2.25; 4 lbs., \$5.75; 8 lbs., \$10.00.

NICO-FUME POWDER. High-strength tobacco powder fumigant. 5 lbs., \$3.35; 10 lbs., \$5.85.

NO-MOLE. Kills moles. 14-oz. tin, \$1.10; 28-oz. tin, \$2.00.

PARA-DICHLOROBENZINE. For killing the peach tree borer. Per lb., 30c; 5 lbs., \$1.25; 10 lbs., \$2.25.

PARIS GREEN. ¼ lb., 20c; 1 lb., 50c; 5 lbs., \$2.25.

POMO-GREEN WITH NICOTINE. The leaf-green all-in-one dust or spray. A combination material, which controls fungous diseases, and kills both leaf-eating insects and aphids. Leaf-green, in color and never unsightly on plants. May be used for dusting or spraying. Lb. can, 75c; 5-lb. can, \$3.00.

PYROCIDE DUST (Non-Poisonous). Controls aphids, cabbage worms, Mexican bean beetle, cucumber beetles, and many other chewing and sucking insects. 2 lbs., 55c; 4 lbs., \$1.00; 25 lbs., \$5.25; 50 lbs., \$10.00.

RED ARROW. A contact insecticide that may be used upon tender foliage and flowers without burning or staining. Economical to use, being decidedly effective at dilutions of one to five hundred. Oz., 35c; 4 ozs., \$1.00; pt., \$2.85; qt., \$5.00; gal., \$16.00.

ROOTONE. A hormone powder for rooting cuttings, dusting seeds and soil. ¼-oz. pkg., 25c; 2-oz. jar, contents will treat up to 3,000 cuttings, price \$1.00; 1 lb., \$5.00. Ask for circular.

ROTONONE DUST (McCormick's) (Contains ¾% Rotenone). Used as a dust or wet spray 1 lb. makes 10 gallons of spray. 1-lb. bag, 25c; 2-lb. bag, 45c; 5-lb. bag, \$1.00.

ROTONONE DUST (Hammond's). 1 lb., 30c; 5 lbs., 70c.

ROTONONE DUST (Acme). 1 lb., 35c; 4 lbs., 55c.

ROTOGREEN. Very effective for thrip, mite, red spider, and mealy bug, in addition to the more easily controlled pests. Ft., \$1.75; qt., \$3.00; gal., \$10.00.

ROTONONE BB DUST (Hammond's). A rotenone-sulphur compound which controls Mexican bean beetle. Non-poisonous. 5-lb. bag, 50c.

SCALECIDE. A complete dormant spray for San Jose scale, and other orchard pests. Qt., 65c; gal., \$1.55; 5 gals., \$5.50; 10 gals., \$9.50; 15-gal. drum, \$13.25; 30 gals., \$21.00; 50 gals., \$29.00.

SELOCIDE. Kills red spider. 1 gal., \$3.50

SLUG SHOT. One of the best known remedies for cabbage and currant worms as well as other leaf-eating insects. Harmless to humans. Lb., 25c; 5 lbs., \$1.00; 25 lbs., \$3.00.

SNAROL. An effective bait for controlling cutworms, grasshoppers, snails, slugs and sow bugs. Not injurious to plants. 1½ lbs., 35c; 4 lbs., 85c; 15-lb. bag, \$3.00.

SULFOCIDE. A non-poisonous sulphur fungicide for fruits, vegetables and flowers. Pt., 50c; qt., 85c; gal., \$2.25.

SULPHUR. Powdered. For mildew. 3 lbs., 35c; 10 lbs., 85c; 25 lbs., \$2.00.

SULPHUR, Wettable. An improved dusting sulphur which can also be used as a liquid spray; controls mildew and black spot. 2-lb. tin, after top, 25c.

TARTAR EMETIC. Recommended for the control of gladioli thrip. ¼ lb., 30c; ½ lb., 50c; 1 lb., 90c.

TEROGEN. Winter soil treatment for roses weakened by black spot. An autumn-winter soil dressing. One pound treats 10 square feet. 1 lb., 75c; 2 lbs., \$1.25; 5 lbs., \$2.75; 10 lbs., \$4.75.

THRIP JUICE. Controls leaf hoppers, aphids, thrips, particularly gladioli thrip and most other insects. ½ pt., 35c; 1 pt., 65c; 1 qt., \$1.25; 1 gal., \$4.80.

TRANSPLANTONE. For the treatment of plants when transplanting. Contains the root-forming hormones, vitamin B-1, and other members of the vitamin B complex important in plant growth. 1 oz., 50c; 3-oz. can, \$1.00; 1-lb. can, \$4.00.

TREE KOTE. A tree wound dressing and pruning compound. 1 pt., 35c; qt., 60c; gal., \$1.75.

TERRO ANT KILLER. Small bottle. 25c; 2 ozs., 50c.

TREE TANGLEFOOT. A paste preparation painted around the trunks to keep caterpillars, etc., from crawling into the trees. One pound makes from 12 to 15 lineal feet of band. 6 ozs., 35c; 1 lb., 70c; 5 lbs., \$3.30; 10 lbs., \$6.25; 25 lbs., \$13.00.

TREE WOUND PAINT. Prevents decay after pruning. This penetrating, antiseptic paint is not affected by heat, cold or moisture. Does not peel, crack or get brittle. Stops tree bleeding. ½ pint, 40c; 1 pint, 70c; 1-qt. can, \$1.25; 1-gal. can, \$3.00.

SPRAY YOUR ROSES WITH

TRI-GEN

Patents Pending

Rose Garden Spray Treatment—it protects roses against many insects and diseases—it tends to promote healthy plant growth.

4 sizes—\$1.50, \$4.00, \$6.00 and \$20.00.

VOLCK, NURSERY. Effectually controls aphids, mealy bug, white fly, thrips, etc., while for red spider and scale insects upon evergreens it is unequalled. Does not discolor foliage. ½ pt., 35c; qt., 75c; gal., \$2.00; 5 gals., \$6.25.

WEED KILLER. A highly concentrated solution which dilutes one part to 100 parts of water. It kills every known variety of weed, with its roots and seeds as well. Just apply with ordinary sprinkling pot. 1 pt., 35c; 1 qt., 50c; 1 gal., \$1.50; 5 gals., \$5.00.

KILLER KEMICAL will rid your lawn of dandelions and keep them out regardless of conditions on adjacent property. Easily applied with the Killer Kane. Try this new marvel.

Killer Kits (Kane and Killer Kemical), enough to kill 1,500 weeds. \$1.95.

Killer Kemical. ½ gal., \$1.45; 1 gal., \$2.35; 5 gals., \$9.85.

Killer Kane. \$1.00.

Junior Outfit. Includes 1-qt. can of Killer Kemical with special nozzle attachment. 85c.

Seed and Soil Disinfectants

Improved SEMESAN BEL

For Seed White Potatoes

A disinfectant for the better control of seed-borne rhizoctonia and scab than the old soak treatment. One pound of New Improved Semesan Bel treats 60 to 80 bushels of seed potatoes. Full directions with each package.

Prices: 4 ozs., 50c; 1 lb., \$1.50; 5 lbs., \$6.50. Free pamphlet.

New Improved CERESAN

A New Low Cost Grain Disinfectant.

Costs only 1½ to 2-1/3 cents per bu. Unusually effective in controlling bunt or stinking smut of wheat, covered smut and stripe of barley, and oat smuts. One pound treats 32 bushels of wheat, oats or barley. Full directions with each package. Prices: 1 lb., 75c; 5 lbs., \$3.25; 25 lbs., \$14.00.

SEMESAN

For Flower and Vegetable Seeds

Prevent the many damaging diseases of flowers and vegetables that are carried on the seed, by disinfection of the seed with Semesan. Recommended especially for seeds, bulbs, gladioli corms, dahlia tubers, and rose bushes. Easily applied as a liquid or dust. One pound treats 15 to 30 pounds of seed. Directions in every can. Prices: 1.3-oz. pkt., 10c; 2 ozs., 35c; 1 lb., \$2.25; 5 lbs., \$10.00; 25 lbs., \$46.00.

New Improved SEMESAN, Jr.

For Seed Field and Sweet Corn

Treatment costs less than 3 cents per acre. Easily and quickly applied as a dust at the rate of 2 ounces per bushel of seed.

Prices 2-oz. pkt., 15c; 4 ozs., 30c; 1 lb., 75c; 5 lbs., \$3.00; 25 lbs., \$12.50; 100 lbs., \$45.00. Free pamphlet.

WHEN ORDERING, SEE PAGE 64 OF THIS CATALOG.

Fertilizers for Lawn and Garden



The Complete Balanced PLANT FOOD

for Lawns, Flowers, Shrubs, Trees
and Vegetable Gardens



Growing things respond quickly when given this excellent plant food. You can expect better results when you use SACCO.

2½ to 3 pounds per 100 sq. ft. for use in preparing new lawns, and on gardens, 3 to 4 lbs. per 100 sq. ft. are recommended.

Clean, odorless, easy to use. Complete directions for applying in each bag.

1-lb. carton	.....\$0.10
5-lb. carton	......40
10-lb. carton	......70
25-lb. bag	.....1.40
50-lb. bag	.....2.40
100-lb. bag	.....3.50

WEDO

WEDO is a fertilizer made especially for grass. You are assured of finer results from its use. The cost?—more per pound because it is made from finer materials—but, less per area because less than one-half the amount is required—only 1½ lbs. per 100 sq. ft. A trial will convince you.

10-lb. bag	.....\$0.80	50-lb. bag	.....\$2.90
25-lb. bag	.....1.70	100-lb. bag	.....5.00

ADCO. The addition of Adco to the compost pile or to other vegetable refuse, grass clippings, leaves, etc., using two pounds to each wheelbarrow load of refuse, will produce a clean, odorless manure within three to four months. 7½ lbs., \$1.00; 25 lbs., \$2.00; 150 lbs., \$10.50.

ALUMINUM SULPHATE. A material used in creating acid soils, in which Azaleas, Rhododendrons, and similar plants are to be grown. Use one pound to 10 square feet of surface. 5 lbs., 40c; 10 lbs., 70c; 25 lbs., \$1.50; 50 lbs., \$2.50; 100 lbs., \$4.00.

AMMONIA SULPHATE. A readily soluble nitrogenous fertilizer analyzing about 25% ammonia. 5 lbs., 30c; 10 lbs., 50c; 25 lbs., \$1.00; 50 lbs., \$1.75; 100 lbs., \$3.25.

ASHES, CANADA HARDWOOD. Contains an abundance of potash. 10 pounds per 100 square feet. 25 lbs., \$1.00; 50 lbs., \$1.75; 100 lbs., \$3.00.

BLOOD MEAL. A quickly available, yet long lasting organic fertilizer. 5 lbs., 40c; 10 lbs., 75c; 25 lbs., \$1.75; 50 lbs., \$3.00; 100 lbs., \$5.00.

BONE MEAL. The fertilizer for all purposes; safe and effective. Especially good for use in the Rose garden, on lawns and on flowering shrubs. 5 lbs., 45c; 10 lbs., 70c; 25 lbs., \$1.25; 50 lbs., \$2.10. Bag of 125 lbs., \$4.25.

CATTLE MANURE. Not pulverized, but rather shredded, making it a desirable fertilizer upon heavy clay or loose sand soils. Per bag of 100 lbs., \$2.75.

COTTON SEED MEAL. Rich in ammonia and potash, making an excellent organic fertilizer for ericaceous plants such as Laurel, Rhododendrons, Azaleas, etc. 5 lbs., 25c; 10 lbs., 45c; 25 lbs., \$1.00; 50 lbs., \$1.75; 100 lbs., \$3.00.

PULVERIZED LIMESTONE. A Lawn and Garden Conditioner. For renewing old lawns, use at the rate of 100 pounds for each four hundred square feet. For new lawns, give a generous coating at the rate of 1,000 to 2,000 pounds per acre for sandy soils, and 2,000 to 3,000 pounds per acre for clay soils. Per bag of 80 lbs., 85c; 5 bags, \$3.25; 10 bags, \$5.50.

MURIATE OF POTASH. The essential element for the proper development of all root crops. 5 lbs., 30c; 10 lbs., 55c; 25 lbs., \$1.00; 50 lbs., \$1.90; 100 lbs., \$3.25.

MILORGANITE. 25 lbs., \$1.00; 50 lbs., \$1.65; 100 lbs., \$3.00.

NITRATE OF SODA. Where quick succulent growth is desired, such as with Lettuce, Spinach, etc. Nitrate of Soda is particularly valuable. 5 lbs., 30c; 10 lbs., 50c; 25 lbs., \$1.00; 50 lbs., \$1.75; 100 lbs., \$3.25.

PLANTET. A nutrient mixture for soilless growth of plants. 7-oz. bottle sufficient for preparing 30 gallons of growth solution. 75c.

10-6-4. Grass, shade and fruit tree fertilizer. Per bag of 125 lbs., \$3.75; 50 lbs., \$1.75.

4-12-4. A balanced garden fertilizer. Per bag of 125 lbs., \$3.25; 50 lbs., \$1.65.

More Plant Feeding Value

PER POUND AND
PER DOLLAR

WITH AGRICO

Different plants require different plant-food diets; that's why AGRICO comes in two special-purpose grades for the home user — one special AGRICO for Lawns, Trees and Shrubs; and another special AGRICO for Flowers and Vegetables. Made by the world's largest fertilizer producer—with 80 years' experience in plant-food manufacture; sold from Maine to Florida; AGRICO is used by outstanding farmers, greenhouse men, country clubs, private estates. Try AGRICO now—you'll see real results in your garden and your lawn.



AGRICO for LAWNS, TREES and SHRUBS

Size pkg.	Price
100 lbs.	\$4.00
50 lbs.	2.50
25 lbs.	1.50
10 lbs.	.75
5 lbs.	.45

AGRICO for GARDENS

Size pkg.	Price
100 lbs.	\$3.75
50 lbs.	2.40
25 lbs.	1.40
10 lbs.	.75
5 lbs.	.45

AGRICO - the Nation's Leading Fertilizer

PHOSPHATE, SUPERPHOSPHATE (20% Acid Phosphate).

The rapid development of plants with a corresponding stimulation of flower production are qualities that may be attributed to phosphates. 5 lbs., 25c; 10 lbs., 45c; 25 lbs., 85c; 50 lbs., \$1.50; per bag of 125 lbs., \$2.75.

PLANTABBS. A widely advertised fertilizer and stimulant in tablet form made especially for potted plants. Now contains Vitamin B-1. Package of 30 tablets, 25c; 75 tablets, 50c; 200 tablets, \$1.00; 1000 tablets, \$3.50.

PLANT MARVEL. Ensures bushy ferns and healthy flowers and plants. It is a pure, rich, quick-acting plant tonic and contains 61.30 per cent of plant food. Begins to feed instantly. Nourishes continuously and plentifully. Package, 25c; ½-lb. container, 60c; 1-lb. container, \$1.00. The 1.00 size is the most economical.

SHEEP MANURE. A pure natural fertilizer for lawns, broadcast 6 to 10 pounds per 100 sq. ft. In flower and vegetable gardens use 10 pounds per 100 sq. ft., cultivated into the surface of the soil. 5 lbs., 30c; 10 lbs., 55c; 25 lbs., \$1.00; 50 lbs., \$1.60; 100 lbs., \$2.50.

TOBACCO DUST. A good remedy for green fly, aphids, fleas, beetles, etc. 1 lb., 10c; 3 lbs., 25c; 10 lbs., 65c; 100 lbs., \$4.50.

TOBACCO STEMS. Used for fumigating plants to kill insects, and as a mulch for roses, asters, lettuce, etc. Bale of about 100 lbs., \$2.00.



PRICES

100-lb. bag	\$4.00
50-lb. bag	2.50
25-lb. bag	1.50
10-lb. pkg.	.85
5-lb. pkg.	.45
1-lb. pkg.	.10

PEAT MOSS, HUMUS, etc.

PEAT MOSS. Especially selected for horticultural purposes. Packed in compressed bales burlapped on all sides, staked and wire-strapped. Used for mulching, soil improvement, lawns, storing bulbs, potting, etc. 1 bu., 60c; 2-bus., \$1.00; large bale, \$4.25.

AMERICAN PEAT. 5 lbs., 25c; 10 lbs., 40c; 25 lbs., 85c; 100 lbs., \$2.50.

HUMUS. 5 lbs., 20c; 25 lbs., 60c; 50 lbs., \$1.00; 100 lbs., \$1.75.

PREPARED POTTING SOIL. Per peck, 25c.

GREEN SHEET MOSS. Small bale, 35c; bundle of 5 bales, \$1.50.

SPHAGNUM MOSS. Large bale, \$2.25.

WHEN ORDERING, SEE PAGE 64 OF THIS CATALOG.

HORTICULTURAL TOOLS AND SUPPLIES

National Eezy Wear Garden Gloves

WASHABLE!

Sizes for women: "Small," "Medium," "Large." For men: "Medium" and "Large." Price, 75c a pair; 2 pairs, \$1.40; postpaid.

KREME SKIN GLOVES. Cream-treated in ladies' sizes. \$1.00 per pair.

"ACME" FLOWER SHEAR FOR THE GARDEN. This improved flower shear cuts and holds flowers after cutting. Use one hand in cutting and the shear holds the flower. Each, 55c.

Cyclone Broadcast Seed Sower

A general seeder, which has four pressed tin flanges and distributing wheel under the bottom; gearing wheel centered, making it easy to run. Has an accurate gauge. Sloping feed board and force-feed steel frame. One of the most widely used types. Sack holds one-half bushel; convenient hand hold and body shield; well braced. Price, \$2.50.

Germaco



Hotkaps

An "Individual Hothouse" For Each Plant.
— BIGGER CROPS —

THREE WEEKS EARLIER!

GERMACO HOTKAPS guard plants against frost, wind, rain, insects, etc., by completely covering them.

HOTKAPS are patented wax paper cones—placed over plants or seeds at time of planting. Inexpensive, easy to use. One man can set over 2,500 per day.

PRICES: 1000 for \$10.75; 250-package with setter and tamper, \$4.00; 100-package with setter and tamper, \$2.75; 25-package contains 25 Hotkaps and paper setter, 50c; steel setter and tamper, \$1.50; garden setter (heavy paper), 50c. Postage extra.

Francis Lead-Headed Wall Nails

For securing climbing plants and trees securely to wall. Box of 20 nails, 60c.

"KNEEZIES"

WATERPROOF and WASHABLE KNEE PADS

\$1.00 per pair.
Quickly snap on and off your knees.



Champion Water Weight Roller

For Home Lawns

Diameter of drum, 12½ inches; length of drum, 18 inches. Approximate weight: Empty, 29 lbs.; filled with water, 100 lbs.; filled with sand, 150 lbs. Price, \$5.00.

The Gardenade

Adds to the Joy of Gardening

The Gardenade combines a kneeling pad and a convenient rack for your garden tools. The upright handles are designed to enable you to lower yourself and lift yourself with a minimum of effort. Your knees rest on a large, soft sponge rubber pad. As the pad is flat on the ground, you can work in a comfortable position. Ask for descriptive circular. Price, \$2.50.

English Stainless Steel Garden Tools

No. 8111. Trowel, 3½ in. wide \$2.00
No. 8112. Trowel, 2¾ in. wide 2.00
No. 8113. Hand Spading Fork 2.00

Labels

TREE LABELS.		100	1000
3½ inch, copper wired	....	\$0.30	\$2.75
POT LABELS.			
4 inch	.....	.25	2.50
5 inch	.....	.30	2.75
6 inch	.....	.35	3.00
8 inch	.....	.40	3.50
GARDEN LABELS.			
8 inch	.....	.75	6.75
10 inch	.....	.90	8.00
12 inch	.....	1.20	11.00

Perfect Garden Labels

When marked with an ordinary pencil remains permanently legible in all sorts of weather. When placed in the garden the horizontal marking space is quite easily seen, yet at the same time the attractive blue-gray color of the label blends with foliage and soil.

Border Size. 5 inches long for general garden use. \$1.00 per doz.; 25 for \$2.00; 100 for \$7.75.

Rock Garden Size. 4 inches long for small plants in the rock garden. 90c per doz.; 25 for \$1.75; 100 for \$6.75.

Show Garden Size. 7 inches long, a more conspicuous label for taller growing plants. \$1.25 per doz.; 25 for \$2.50; 100 for \$9.50.

Tie On Label. 3½ inches by ¾ inch for roses, shrubs, etc.; fitted with copper wire. \$3.00 per 100.

Pot Label. 4 inches by ¾ inch for pots, seed frames, etc. \$2.50 per 100.

EVERMARK. Weather-proof pencil. 15c each.

Plant Stakes, etc.

GREEN CANE STAKES

	Per Doz.	Per 100
2 ft.	\$0.10	\$0.40
2½ ft. ....	.10	.50
3 ft. ....	.15	.75
4 ft. ....	.20	1.00

WOODEN STAKES PAINTED GREEN

	Per Doz.	Per 100
5 ft., 1 in. by 1 in.	\$1.10	\$7.00
6 ft., 1 in. by 1 in.	1.25	8.00

HEAVY BAMBOO TONQUIN STAKES

	Per Doz.	Per 100
7 ft., ¾ in. to 1 in.	\$1.00	\$7.00

Neponset Water-Proof Paper Flower Pots

Neponset Pot. Excellent for growing, storage, shipping and miscellaneous purposes. Made of tough, water-proof paper that gives to them a lasting strength. They permit speed in handling, and if desired, it is easy to remove plants from them.

Size	Doz.	100	1000
2¼ inch	\$0.10	\$0.50	\$ 4.35
2½ inch	.10	.60	4.70
3 inch	.15	.75	5.45
3½ inch	.20	.95	7.90
4 inch	.25	1.15	9.55

The Sacco Spreader

Instantaneous feed control from handle. Simple adjustment for regulating quantity. Saves time and materials.

18-in. Spreader \$ 4.25
30-in. Spreader (with reg. wheels) 17.50

Sprayers and Dusters

We carry a complete assortment of Sprayers and Dusters. Ask for prices.

Vigoro Spreader

Model	Width	Capacity	Price
B	14-in.	13 lbs.	\$ 2.95
Junior	16-in.	35 lbs.	6.25
Standard	24-in.	65 lbs.	13.25
Special	36-in.	100 lbs.	19.75

Harco Sprayer

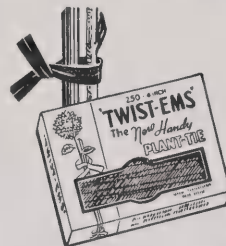
It is quick, easy to use. Simply squeeze pump handles together. Fits inexpensive quart Mason jar. Perfect for watering house plants and seedlings in flats. A low cost efficient sprayer for controlling garden pests. Price, \$1.95 complete.



"Twist-Ems"

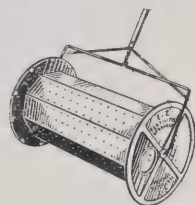
THE NEW HANDY PLANT-TIE

Quick, permanent, attractive, convenient. Color, green. Box of 125, 8-in. size, 25c. Box of 250, 4-in. size, 25c.



E-Z Fertilizer Spreader

Fertilize your lawn the E-Z way. Simply fill the container. Push, and the lawn is covered. Economical — Efficient — No MESS — No Waste. Price, 95c.



Sudbury Soil-Testing Kits

Tests for nitrogen, phosphorus, potash, and acidity. It will give the gardener complete information about the requirements of his soil.

Home Gardener's Kit (Four complete tests) \$ 2.00
Club Kit (Makes 10 tests) 4.75
Horticultural Kit (Makes 60 tests) 9.75
Professional Kit (Makes 200 tests) 18.50

Raffia

For tying, basket making and fancy work. Natural color, 50c per lb.; 5 lbs., \$2.00.

GREEN. Bundle (about 1 lb.), 85c.

Water-Proof Tree Wrapping Paper

Rolls 4 inches wide, about 150 ft. Each, 60c; per doz., \$6.00.

Soil-Soaker



PRICES

No.	Length	Diameter	List Price Each
No. 0	12 feet	2 inches (flat)	\$1.25
No. 1	18 feet	2 inches (flat)	1.75
No. 2	30 feet	2 inches (flat)	2.75
No. 3	50 feet	2 inches (flat)	4.50

"OUR SEEDS GROW FRIENDS"

At no time since the first World War has it been so necessary for the American people to increase their vigor and healthfulness.

A serious shortage of garden vegetables, with sky-rocketing prices, may develop unless there is a large increase in home vegetable gardening.

There can be no reserves of FRESH vegetables, excepting those growing in gardens. The abundant supply to which we have become accustomed, could be changed to a shortage.

Home gardeners are hearing the call. Vacant land in favorable locations will soon be prepared to strengthen our food front. The first battle to be fought is one to prevent any shortage of garden vegetables and canned goods. This battle can be won by our army of home gardeners.

FRESH VEGETABLES play a vital part in combating malnutrition and supply the necessary vitamins for the added energy we all must have.

You can protect your family and contribute to national preparedness by growing a large part of the vegetables you need in your own back yard! Be ready! Plan and plant early, for whatever may come!

McCullough's Seeds have been on the market for over one hundred years. We pride ourselves on this reputation. We spend a great deal of time, effort and labor to supply seeds and gardening supplies that are, to the best of our knowledge, of the highest quality. We have often been asked if we "guarantee or warrant our seeds." We answer that we can not, for the reason that practical experience has assured us that there are many hazards beyond the

control of the seedsman, such as weather conditions, insects, and differences in soil. Many times we have observed a planting of the best of seeds to fail; and, later a planting from the same lot of seeds, result in an excellent crop.

The J. Chas. McCullough Seed Company gives no warranty, express or implied, as to description, quality, productiveness or any other matter of any seeds, bulbs, or plants it sells, and will not be responsible for the crop.

Suggestions For Ordering

All Flower and Vegetable Seeds in our catalog are numbered; our order sheet is arranged to take care of these numbers which saves you the time and trouble of writing the names of the seeds in full. If you send your order early, the benefit will be mutual. You will have your seed on hand when the planting season arrives and it will enable us to fill your order before the "please rush" period is upon us.

Seeds by Mail, etc.

Packets and half pounds only of Beans, Corn, Peas, and all other varieties of Vegetable and Flower Seeds, will be forwarded postpaid at catalog prices, unless otherwise noted. All other items are priced F. O. B. Cincinnati. Where Cotton Seamless Bags are required, they will be charged at thirty cents each. We reserve the right to advance or decline with the market on any item listed in this catalog.

THE J. CHAS. McCULLOUGH SEED CO.

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THE J. CHAS. McCULLOUGH SEED CO.

Date _____		AMOUNT ENCLOSED	
Name _____		Cash	_____
Street _____		Check	_____
Post Office _____		Money Order	_____
State _____		Stamps	_____
		(Not over 1, 2 or 3c denominations)	
SHIP BY <input type="checkbox"/> MAIL <input type="checkbox"/> EXPRESS <input type="checkbox"/> FREIGHT		TOTAL	_____

[illegible]

Date _____



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Double flowers from 3 to 4 inches in diameter resemble camellias and roses in all forms and variation of color.

COLLECTION OFFER:
6 bulbs, including
Scarlet, Pink, Yellow and White, for



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for Cut Flowers

Collection of 6 Varieties

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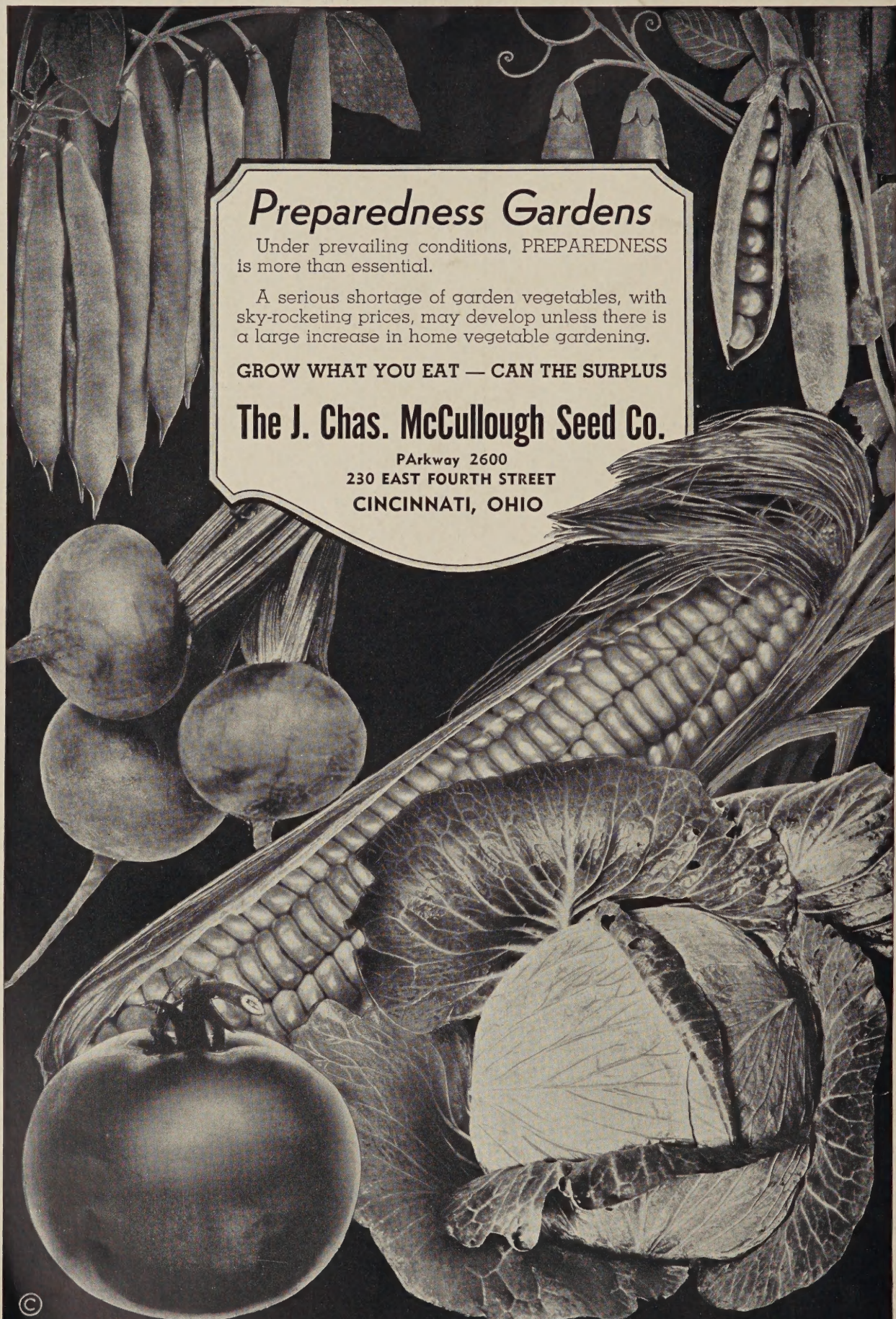
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- 12 PICARDY
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- 6 COMMANDER KOEHL
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54 Large Bulbs . . . \$1.75

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For description of the above varieties
see page 56.



Preparedness Gardens

Under prevailing conditions, PREPAREDNESS is more than essential.

A serious shortage of garden vegetables, with sky-rocketing prices, may develop unless there is a large increase in home vegetable gardening.

GROW WHAT YOU EAT — CAN THE SURPLUS

The J. Chas. McCullough Seed Co.

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